PENNSYLVANIA BUREAU OF RADIATION PROTECTION

ENVIRONMENTAL RADIATION IN PENNSYLVANIA

2003 and 2004 ANNUAL REPORTS

Commonwealth of Pennsylvania
Department of Environmental Protection
Bureau of Radiation Protection

Edward G. Rendell, Governor www.depweb.state.pa.us **Kathleen A. McGinty, Secretary**

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ENVIRONMENTAL SURVEILLANCE SECTION

INTRODUCTION

The Department of Environmental Protection (DEP), Bureau of Radiation Protection (BRP) maintains a comprehensive environmental radiation monitoring program in Pennsylvania, as required by the "Radiation Protection Act" (No. 1984-147). The purpose of the program is to evaluate long-term trends in environmental radiation levels; to assess the environmental impact of particular sites, such as nuclear power plants; and to provide this information to the public. The Environmental Surveillance Section within BRP is responsible for ensuring these goals are accomplished. The Environmental Surveillance Section's monitoring activity is focused on radiation levels in the outdoor environment affected by human activities such as industrial (including power production), weapons testing and wastes from medical facilities.

Following are the results of this section's environmental monitoring activities for calendar years 2003 and 2004, including both background radiation monitoring and source-oriented monitoring around nuclear facilities.

The report is submitted to the President Pro Tempore of the Senate and the Speaker of the House of Representatives and made available to the general public.

ACKNOWLEDGMENTS

Special thanks are extended to the individuals who allow us to maintain sampling sites on their properties and provide BRP with samples from their farms and gardens.

SUMMARY

The results of our 2003 and 2004 environmental sampling program indicate that Pennsylvanians have not been exposed to levels of radiation above normal background. This has been determined by comparing samples collected around nuclear facilities with those from locations that would not be influenced by such facilities.

This is a report of the results of sampling done to measure radiation levels in Pennsylvania during calendar years 2003 and 2004. Air sampling and environmental dosimeter results from around facilities that could be contributing radiation contamination to the environment are compared to samples that were collected from the Evangelical Press Building rooftop site in Harrisburg, Dauphin County. Water, fish and sediment samples taken downstream of a facility are compared with those collected upstream (control samples). Downwind milk and vegetation samples at each facility are compared to samples collected from the upwind direction. If these comparisons ever point out elevated levels from controllable sources of radiation, action would be taken to investigate and correct problems.

Samples collected as part of the BRP environmental monitoring program are analyzed by the DEP Bureau of Laboratories (BOL), Radiation Measurements Section. Data tables containing analysis results of samples are contained in the attached appendices.

The direct gamma radiation measurements reported in the appendices are readings from thermoluminescent dosimeters (TLDs). The Environmental Surveillance Section discontinued to operate its own TLD environmental monitoring system after the first quarter 2003. Dosimeters provided by Global Dosimetry Services (GDS), formerly ICN Dosimetry, are exchanged by BRP staff and submitted to GDS for reading. This is a result of budgetary considerations (see 2002 Annual Report for details) and evolving accreditation recommendations for thermoluminescent dosimetry programs.

For quality control purposes, a limited number (four per site) of collocated radiation measurements are made using dosimeters supplied by another contractor, Proxtronics, Inc. The contractor analyzes these dosimeters with the results reported to BRP as a check on BRP data. Contractor dosimeters are exchanged quarterly with the BRP TLDs. The contractor is not advised of the locations during the field exposure period.

The Federal government has established guidelines for levels of exposure to radiation thought to be safe. Levels detected in samples collected during 2003 and 2004 did not exceed these guidelines.

The variation of radiation levels observed (unless otherwise referred to in the report) are well within normal ranges. Background levels, mostly due to natural sources, vary somewhat from place to place and season to season. Background levels are affected by type of terrain (some rock and soil formations contribute more radiation exposure than others), fallout from weapons and variations in cosmic radiation, which increase with altitude and vary with sunspot activity. Exposure to radon and its decay products is affected by weather conditions. Lastly, there is still detectable man-made radioactivity in the environment from past nuclear weapons testing.

Tritium levels normally observed in the environment have varied greatly through the years. These levels were greatly affected by fallout from nuclear weapons testing. In 1963, mean concentrations of H-3 in surface streams in the United States were on the order of 4000 picocuries per liter (pCi/l), about 400 times the contribution from naturally occurring tritium (NCRP 1979) and an order of magnitude greater than the concentration typically found in environmental waters in 1983 (Kathren, 1984). Cosmogenic radiation is responsible for producing concentrations in groundwater on the order of 19 pCi/l (Kathren, 1984).

Harrisburg viewed from the background monitoring station at 3rd and Reilly Streets.

Radioactivity Measurements

Samples collected as part of the BRP environmental monitoring program are analyzed by the DEP Bureau of Laboratories, Radiation Measurements Section. Radioactivity measurements for these samples are reported in terms of sample concentration. The unit of radioactivity used most frequently in this report is the picocurie (pCi). One picocurie is equal to 2.22 nuclear disintegrations per minute. A picocurie is one-one trillionth of a curie.

Air-borne radioactivity is reported in terms of picocuries per cubic meter. Since the concentrations found are less than one picocurie per cubic meter, the gross activity and iodine-131 measurements listed must be multiplied by 0.01 to obtain the measured value. For example, 1.4 x 0.01 pCi/m^3 = 0.014 pCi/m^3. Air-particulate gamma measurements are reported in femtocuries per cubic meter. A femtocurie (fCi) is one-one thousandth of a picocurie.

Radioactivity concentrations in liquids, such as water and milk, are expressed in pCi/L. In precipitation, the gross activity concentration in pCi/L is used to determine deposition in nanocuries per square meter (nCi/m^2). A nanocurie is one-one billionth of a curie.

Radioactivity concentrations in solids (i.e., fish, sediment and produce) are expressed in picocuries per kilogram (pCi/kg).

The sample concentration is the observed reading of radioactivity in a sample on a given date and time divided by volume or mass of the sample, as appropriate. Because the radioactive decay process is random, it requires using a method of reporting the uncertainty inherent in this single measurement. This method uses basic counting statistics. It considers background and sample counting rates. The resulting

Radioactivity Measurements (cont.)

count rate uncertainties are corrected for instrument-counting efficiency, sample size, decay since collection and other modifiers to allow reporting in the same units as the sample concentration data.

All measurements for samples found to contain radioactivity are reported as the mean +/- 2σ (σ = standard deviation of the mean) or the 95 percent Confidence Limit (CL). This means that we are 95 percent confident that the real concentration in the sample lies somewhere between the measured concentration minus the counting error and the measured concentration plus the counting error. For example, if a value of 8+/-2 pCi/L is reported, this means we are 95 percent confident that the real concentration is somewhere between 6 and 10 pCi/L.

Counting statistics are also used in reporting the confidence that the radioactivity in the sample is less than some concentration. This minimum concentration is termed the Lower Limit of Detection (LLD) and is represented by the symbol <.

Real world limitations of sample size, counting time and the statistical nature of radioactive decay preclude the ability to analyze and report a true zero concentration. The method used to describe the LLD for all sample analyses in this report uses 4.66σ applied to the instrument background, corrected for volume, counting efficiency, radioactive decay since collection, branching ratio and chemical recovery. This LLD at 4.66σ is also called the 95 percent CL since it statistically yields a five percent risk of reporting a false positive and a five percent risk of reporting a false negative result. For example, if a datum is reported as less than 10 pCi/L (<10 pCi/L), we are 95 percent confident that the sample concentration, if any, is less than 10 pCi/L. Conversely, if a similar sample were counted so as to produce an LLD at 4.66σ of 10 pCi/L and the result was greater than 10 pCi/L, we are 95 percent confident that this datum truly is greater than 10 pCi/L.

The direct gamma radiation measurements reported are readings from TLDs, currently supplied and read by the contractor, Global Dosimetry Solutions (GDS). The TLDs used for environmental monitoring consist of three replicate elements of the gamma sensitive phosphor calcium sulfate, which is doped with thulium ($CaSO_4$:Tm). Each element is shielded with lead to compensate for the tendency of the phosphor to overreact to low-energy gamma rays. The data in this document are reported in terms of milliroentgen per standard month (mR/std. mo.), a standard month being 30.4 days. Regardless of the duration of TLD exposure in the field, the data has been normalized to a standard month to allow convenient intercomparisons in the net value.

Each of the three elements in a dosimeter observes the radiation environment differently. The reported data then must include an error term to express this variation. This error term is reported at 2σ or the 95 percent CL. Individual correction factors are also used for each element to lower the error term and improve the overall accuracy in these measurements. The element correction factors (ECFs) are generated from results of four 200 mR exposures to a cesium-137 source. The response/delivered dose (R/D) is calculated for each element for each of the four exposures. For each individual element, the mean R/D is then calculated and becomes the correction factor for that element.

The current contracted dosimetry service is fully accredited by the following:

-**National Voluntary Laboratory Accreditation Program** (NVLAP) accredits public and private laboratories based on evaluation of their technical qualifications and competence to carry out specific calibrations or tests. GDS is accredited by NVLAP under code number 100555-0.
-**Department of Energy (DOE) Laboratory Accreditation Program** (DOELAP) evaluates the performance of testing laboratories for equipment and standards adherence and conformance with operating procedures. GDS is approved by DOELAP.

Radiation Measurements (cont.)

-Health and Safety Executive (HSE) is responsible for the regulation of safety issues arising from work in Britain and protecting the public's health by ensuring risks in the changing workplace are properly controlled. GDS is an HSE-approved dosimetry service.
-Canadian Nuclear Safety Commission (CNSC) grants operating licenses to Canadian nuclear facilities and promotes health and safety by regulating the use of nuclear energy and materials.

In addition to the GDS dosimeters, collocated radiation measurements are made using dosimeters supplied by a contractor, Proxtronics, Inc. The contractor analyzes these dosimeters with the results reported to BRP as a check on GDS data. Contractor dosimeters are exchanged quarterly with the GDS TLDs. The contractor is not advised of the locations during the field exposure period. The contractor, Proxtronics, Inc., is accredited by NVLAP.

BACKGROUND RADIATION MONITORING

The purpose of a background radiation monitoring program is to evaluate the normal levels of radionuclides in the environment from natural sources and atmospheric fallout and to monitor trends over time. Background monitoring stations are not intended to monitor specific nuclear facilities, but rather to gauge widespread impacts. The types of media routinely sampled in this program include milk, surface water, drinking water and precipitation.

Pennsylvania Milk Network

The Pennsylvania Milk Network (PMN) was established in 1963 in response to substantial atmospheric testing of nuclear weapons by the United States and the Soviet Union in preceding years. The network originally sampled pasteurized milk monthly from 10 cities in the Commonwealth. In the late 1960's, the number of cities sampled was reduced to four: Harrisburg, Pittsburgh, Erie and Philadelphia.

The objective of this program is to estimate the intake of milk-borne radionuclides by the general population. To provide a representative sample of the milk supply in each city, PMN samples are composites of milk from local dairy processors. All samples are analyzed by gamma spectroscopy and strontium-90 separation and analysis.

The Pittsburgh and Erie PMN samples are collected monthly by the county Departments of Health. The Harrisburg and Philadelphia samples are collected monthly by BRP staff.

During 2003 and 2004, the results of analyses show less than detectable levels of iodine-131, cesium-134, cesium-137 and barium-133. Strontium-90 levels are indicative of normal background concentration of about 1.4 to 1.8 grams potassium per liter of milk. (See Appendices 2003 1.A and 2004 1.A)

Pennsylvania Water Quality Network

The Pennsylvania Water Quality Network (WQN) originally was established to measure a number of conventional water quality parameters in surface water. In 1963, analyses for gross alpha and gross beta activity were added to measure the impact of atmospheric testing of nuclear weapons. The early program sampled about 180 surface water stations on a quarterly basis.

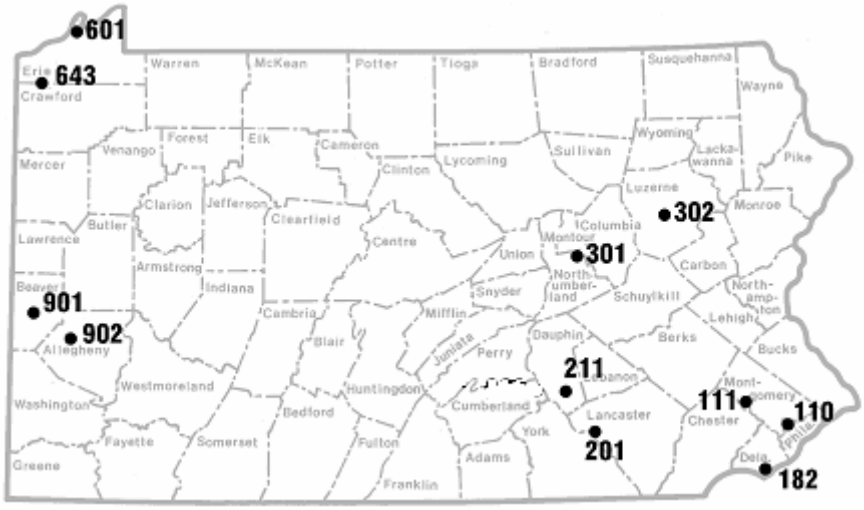
In the early 1970's, the number of stations for which radioactivity measurements were made was reduced to 22 and radioassay specifically for tritium was added. The stations retained were those located on the main stems of rivers, which are, or may at some time, become receiving streams for effluents from nuclear power stations. In 1988, the network was again revised, and as of 2003 and 2004, 11 stations are sampled for radiological analysis. Sampling frequency was reduced from monthly to approximate bi-monthly intervals at nine of the eleven stations due to staffing restraints beginning in 1999 and continued through 2004. Due to frozen conditions, many of the planned December collections were not possible.

The purpose of this program has gradually evolved from one of assessing the impact of atmospheric weapons testing to one of developing a database against which the long-term impact of nuclear facilities might be gauged.

All 2003 and 2004 WQN samples are grab samples collected by DEP's Bureau of Water Quality Management.

During 2003 and 2004, results were indicative of normal background levels. (See Appendices 2003 1.B and 2004 1.B)

Pennsylvania Water Quality Network Stations



Drinking Water Monitoring

Finished drinking water samples are collected from the city of Philadelphia.

At the request of the city of Philadelphia, sampling was initiated in 1978 at the three sources of Philadelphia's water supply. The Baxter Water Treatment Plant taps the Delaware River; Queen Lane and Belmont Treatment Plants utilize the Schuylkill River. The continuously composited samples are collected monthly by Philadelphia Water Department personnel and analyzed for gross activity and tritium by BOL.

This drinking water data is used, along with the WQN surface water data, to evaluate the long-term impact of nuclear facilities and to monitor trends over time.

All data compares favorably with the United States Environmental Protection Agency (USEPA) National Interim Primary Drinking Water regulations. Those criteria were 15 pCi/L gross alpha, 50 pCi/L beta and 20,000 pCi/L tritium before the December 2000 revisions went in effect. Drinking water criteria, at present, maintain the 15 pCi/L gross alpha limit, but make beta and tritium criteria contingent on activity levels for isotopes according to US EPA requirements and are not analyzed by BRP. (See Appendices 2003 1.C and 2004 1.C)

Precipitation Monitoring

Precipitation as rain, snow, mist, sleet or fog condensation is routinely gathered from a collector located on the roof of the Evangelical Press Building in Harrisburg. Sampling is tied to precipitation episodes.

Precipitation is analyzed for gross activity and tritium. Gross activity concentration data is used to express deposition data. In times of environmental radiation crises, such as the Chernobyl accident in 1986, deposition data is used to evaluate the potential for contamination of the milk supply. Data for tritium in precipitation is used for comparison with similar data for surface water.

All data collected at the Evangelical Press Building during 2003 and 2004 is indicative of normal background levels. (See Appendices 2003 1.D and 2004 1.D)

SOURCE-ORIENTED MONITORING

The purpose of a source-oriented monitoring program is to assess the environmental impact of a particular facility. BRP currently maintains off-site environmental radiation monitoring programs around five nuclear power plants in Pennsylvania: Beaver Valley Power Station, Limerick Generating Station, Peach Bottom Atomic Power Station, Susquehanna Steam Electric Station and Three Mile Island Nuclear Station. At each facility, the monitoring program is designed to measure human population exposure. Monitoring stations are placed at locations that serve as indicators of any effects from plant operation and at control locations, which are beyond the measurable influence of the facility. These stations also provide verification of utility effluent monitoring programs during routine operations and serve as an in-place-sampling network in the event of an accidental release.

Environmental monitoring continued in the vicinity of the former PermaGrain Products Incorporated facility at Quehanna, Clearfield County through July of 2004. At that point, the cleanup operations being performed by contracted Scientech, Inc. and overseen by the DEP in cooperation with the Department of Conservation and Natural Resources and the Department of General Services were believed complete. PermaGrain Products Incorporated ceased operations at the site as of January 2003. Confirmation of successful decommissioning will be determined by the Nuclear Regulatory Commission (NRC).

The environmental monitoring program at the Molycorp Facility in Washington, PA (a subsidiary of Unocal Corporation), also continued. This was originally in preparation for a project planned to create a holding area for material to be moved from their York, PA site. The York facility had processed ores to produce inorganic rare earth chemicals for industrial use producing waste products containing thorium and uranium. The Washington, PA site processed ores to produce a ferro-columbian alloy, which created a waste of thorium-bearing slag. The plan to transfer the waste between facilities and stored was withdrawn and both sites are undergoing decommissioning. All contaminated waste materials removed from both the Washington and York sites are being shipped to appropriate waste handling facilities. Environmental Surveillance staff provided assistance to the BRP's Decommissioning Section staff at the York facility clean up site. Surveys and sampling were performed to screen areas at the site proposed by the facility to be deemed safe for release.

A limited monitoring program is being conducted at the Waltz Mills Westinghouse facility as they conduct cleanup activities around the site of a nuclear test reactor last operated in the 1960's. Two air samplers are located in predominant wind directions toward populated areas.

Exposure to the population can occur through direct pathways (i.e., immersion, inhalation or indirectly through the food chain). These exposure pathways are monitored using TLDs and by collection of air, milk, produce, water, fish and sediment samples.

Direct exposure by immersion or inhalation is measured by TLDs and collection of representative air samples, respectively. TLDs continuously observe the radiation environment and provide a direct measurement of ambient gamma radiation levels. Approximately 30 TLD stations are located within a 15-mile radius around each nuclear power plant. Five TLDs were in a 5-mile radius of the PermaGrain clean up project during active cleanup activities. Twelve TLDs have been placed within a 5-mile radius of the proposed holding area at Molycorp. At three facilities, a TLD station is located at a distance greater than 15 miles as a control. A statewide-control station is also located in Harrisburg.

At the five nuclear power plants, air samples are collected by drawing air through a particulate filter and an activated charcoal canister in tandem using continuously running vacuum pumps. The particulate filters are analyzed individually for gross alpha and beta activity and composited quarterly for gamma spectrum analysis. The charcoal canisters are analyzed for iodine-131. Four air samplers are located within a 5-mile radius of each nuclear power plant with a statewide-control station located in Harrisburg. The locations of both the TLD and air sampling sites are chosen with respect to the meteorology and population distribution around each plant. At Molycorp, Waltz Mills and Quehanna sites, samples were collected with only particulate filters and composited monthly for alpha spectrum analysis and/or gamma spectroscopy. In addition the Quehanna filters are analyzed individually for gross alpha and beta activity because of the materials used at this site.

Radionuclides can enter the food chain through atmospheric and liquid discharges from the nuclear power plant. Radionuclides released to the atmosphere (i.e., iodine-131 or cesium-137) may be deposited on agricultural land and then ingested by dairy animals becoming concentrated in milk. These isotopes can also become incorporated in food products such as green leafy vegetables. An indicator sample of milk is collected for each plant from the closest dairy farm in the prevailing wind direction. A control sample is also collected from a farm in the least prevalent wind direction. A green leafy vegetable (i.e., cabbage) is collected from the closest indicator garden around each plant when available. For the Susquehanna station, where irrigation uses water downstream of the discharge, produce with high water content is sampled.

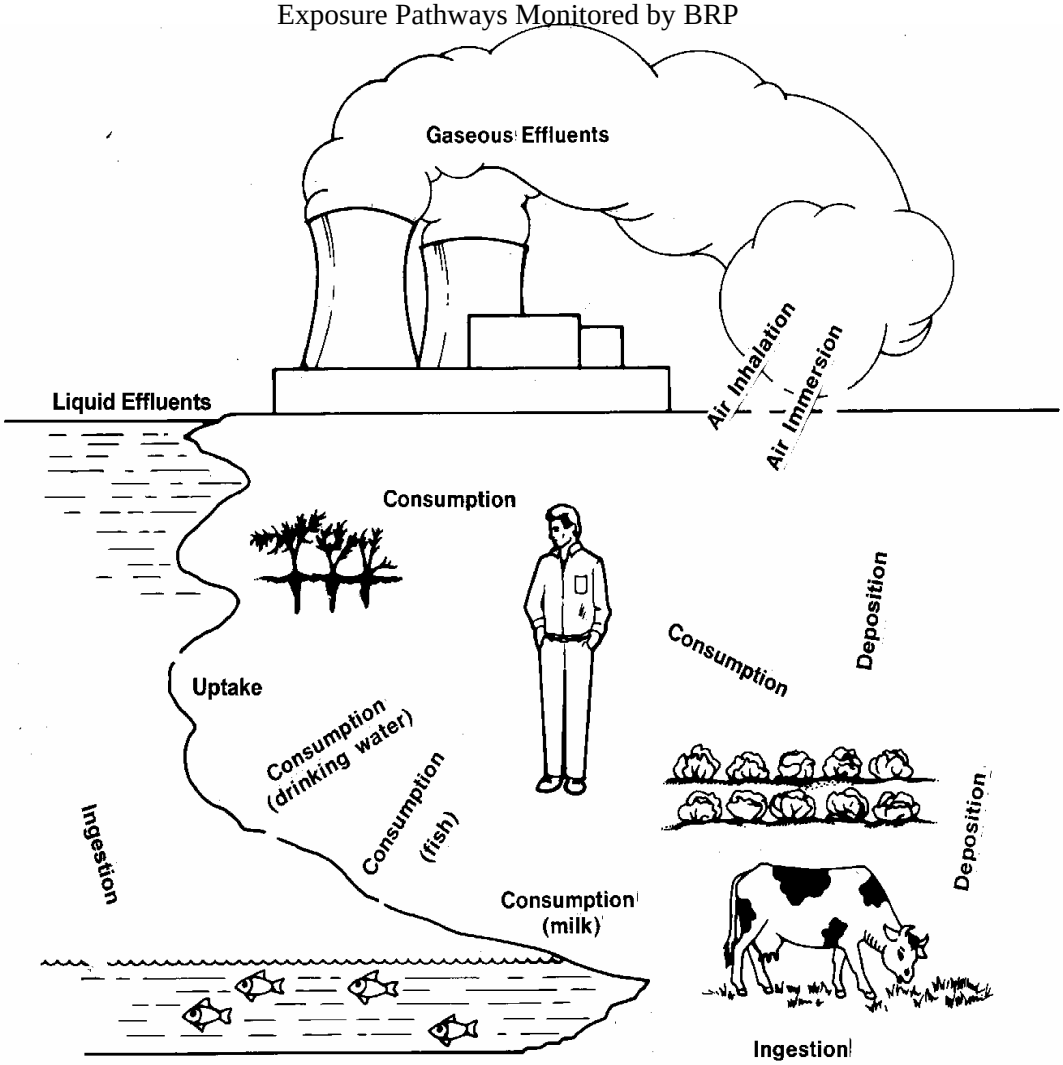
Monitoring for radionuclides in liquid discharges at nuclear power facilities includes collection of surface and finished water, fish and sediment samples and in some cases, produce samples. Raw water samples are collected upstream of the plant discharge as a control and downstream of the discharge at the closest drinking water user. A sample in the vicinity of the discharge is also collected at four facilities. The samples are analyzed for gross beta, tritium and gamma-emitting radionuclides. All water samples are composites to provide a more accurate indication of the quantities of radionuclides present in water available for public use.

Potatoes were collected from a garden in the Susquehanna Steam Electric Station area where water drawn downstream from the plant is used for irrigation. This crop was analyzed to measure uptake by the plants of any gamma-emitting radionuclides present in the water.

Fish are sampled annually or semiannually in the vicinity of the discharge. The collected species correspond to those consumed by the public, when possible. Fish are good indicators because they concentrate radionuclides to some extent and provide an effective mechanism for integrating the variable concentrations of radionuclides in the water over extended periods.

Annual or semiannual bottom sediment samples are collected in the vicinity of the discharge. Sediment represents the major site for accumulation of radionuclides in an aquatic environment and with long-lived radionuclides, a gradual increase in concentration may be expected over time. Sediment, therefore, may provide a long-term indication of change that may also appear in other media.

Exposure Pathways Monitored by BRP



BEAVER VALLEY POWER STATION

Beaver Valley Power Station Units 1 and 2 are pressurized water reactors each rated at 852 megawatts electrical (Mwe). The facility is situated on the south bank of the Ohio River in Shippingport Borough, Beaver County, Pennsylvania.

The facility is operated by First Energy Nuclear Operating Company (FENOC).

BEAVER VALLEY THERMOLUMINESCENCE DOSIMETRY

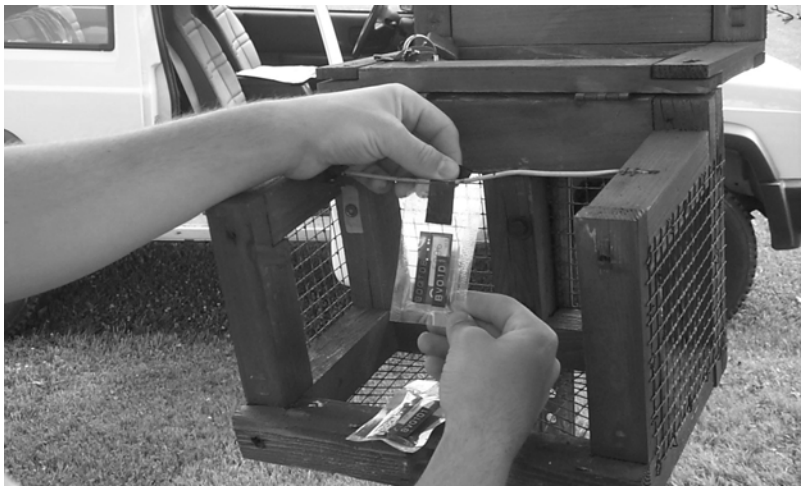
BRP TLD program in the environs of Beaver Valley Power Station includes 30 dosimeter stations exchanged quarterly. The locations range in distance from 0.4 to 29.2 miles from the site.

Contractor cross-check dosimeters from Proxtronics, Inc. were at four locations to provide a check on GDS data. (See Appendix 2003 2.A and 2004 2.A) Dosimeters provided and read by the GDS (formerly ICN) were placed at all 30 stations during 2003 and 2004. The collocation of BRP-evaluated TLDs was established in 2002 to verify readings during the transition from in-house TLD reading to a TLD contractor service, GDS. This transition period was deemed complete and the collocation of BRP-evaluated TLDs was discontinued at the end of the first quarter of calendar year 2003. (Comparison study of the GDS and BRP TLD results is shown in the 2002 Annual Report, Appendix 8.)

All dosimeters are changed by BRP staff.

The annual average exposure for the 30 GDS TLD locations was 38.5 milliroentgen in 2003 (See Appendix 2003 2.B), compared to 68.2 in 2002. The reduction in annual average exposure is attributed to a combination of suppression of terrestrial environmental exposure by snow cover during the first quarter and the slightly lower overall sensitivity of the contractor TLDs used exclusively in 2003. The annual average for the four Proxtronic, Inc. cross-check TLDs collocated with GDS TLDs was 49.1 milliroentgen without correction for control values. The corresponding GDS values were 38.1 milliroentgen (control corrected).

The annual average exposure for the 30 GDS TLD locations was 46.5 milliroentgen in 2004. The annual average for the four Proxtronics, Inc. TLDs collocated with GDS TLDs was 45.8 milliroentgen without correction for control values. The corresponding Proxtronics contractor values were 47.9 milliroentgen (control corrected). (See Appendix 2004 2.A.)

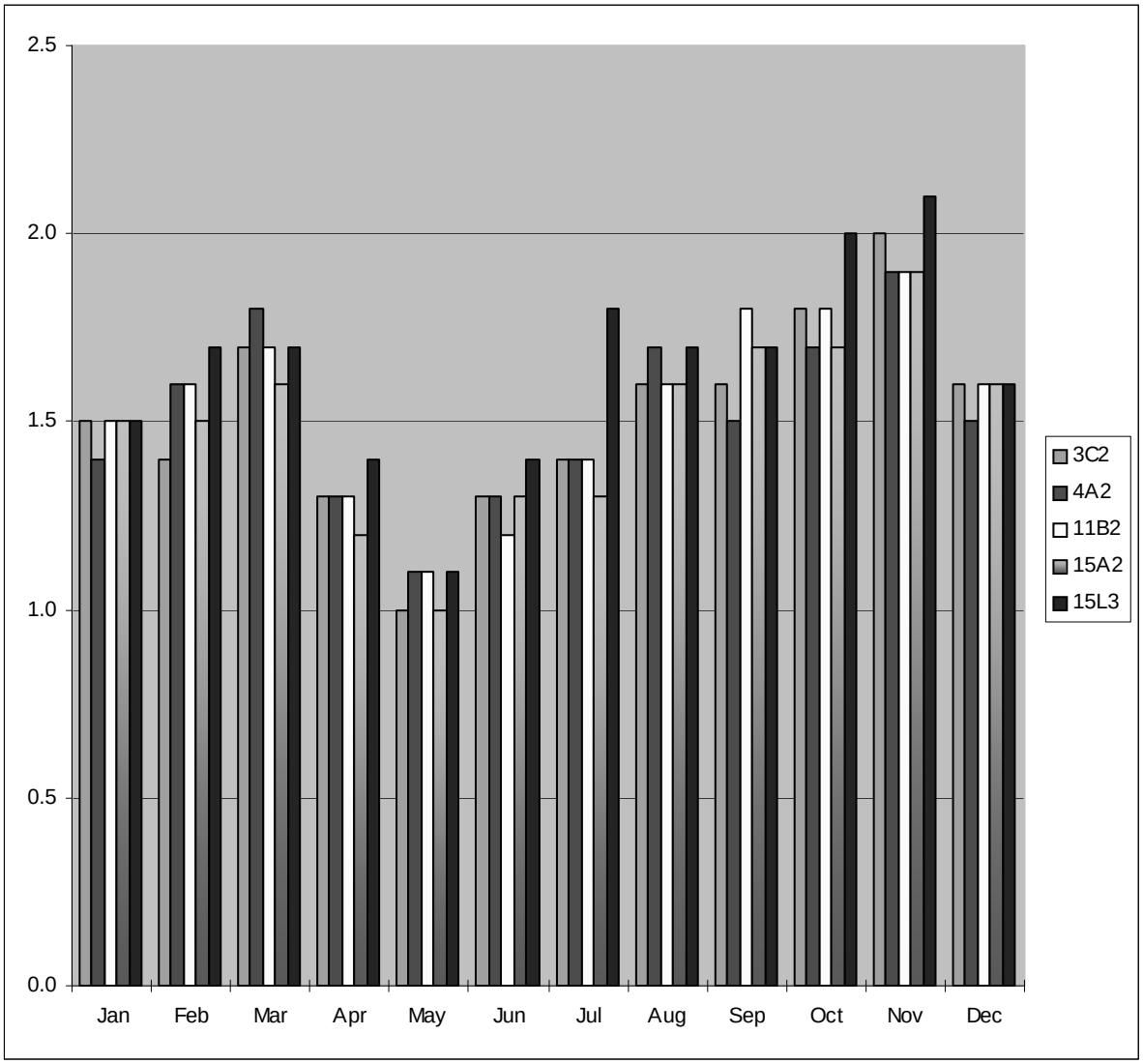


BEAVER VALLEY AIR SAMPLING 2003

In 2003, air sampling in the environs of Beaver Valley continued at four stations. A control sampler is located at Harrisburg. (See TMI air sampling data Appendix 2003, 6.C.5.) The samplers continuously collect air particulates and radioiodines. The particulate filters were individually analyzed for gross activity and composited quarterly for gamma spectrum analysis. Activated charcoal canisters impregnated with TEDA, a chelating agent, were individually analyzed by gamma spectroscopy for iodine-131. The filters and canisters were changed by BRP on a weekly basis.

The airborne gross activity in the environs of Beaver Valley was relatively uniform throughout the year. No airborne iodine-131 was detected. Air monitoring data from Beaver Valley are similar to analogous data from other nuclear power plants in Pennsylvania and the control station (15L3) at Harrisburg. (See Appendices 2003 2.C and 2.D)

2003
Average Gross Beta Concentrations in Airborne Particulates At Beaver Valley Power Station
x 0.01 pCi/m^3

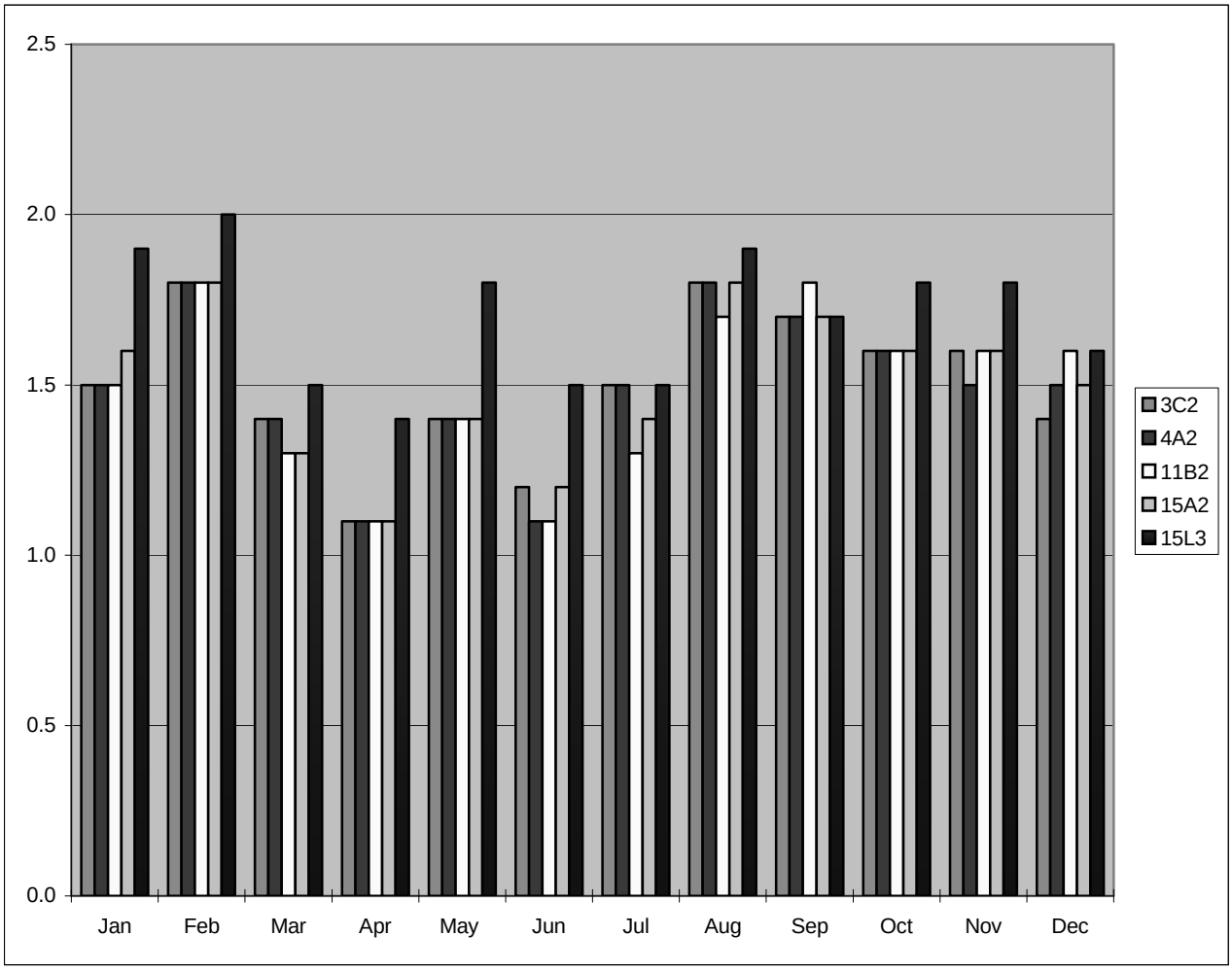


BEAVER VALLEY AIR SAMPLING 2004

In 2004, air sampling in the environs of Beaver Valley continued at four stations. A control sampler is located at Harrisburg. (See TMI air sampling data Appendix 2004 6.C.5.) The samplers continuously collect air particulates and radioiodines. The particulate filters were individually analyzed for gross activity and composited quarterly for gamma spectrum analysis. Activated charcoal canisters impregnated with TEDA, a chelating agent, were individually analyzed by gamma spectroscopy for iodine-131. The filters and canisters were changed by BRP on a weekly basis.

The airborne gross activity in the environs of Beaver Valley was relatively uniform throughout the year. No airborne iodine-131 was detected. Air-monitoring data from Beaver Valley is similar to analogous data from other nuclear power plants in Pennsylvania and the control station (15L3) at Harrisburg. (See Appendices 2004 2.C and 2.D)

2004
Average Gross Beta Concentrations in Airborne Particulates At Beaver Valley Power Station
x 0.01 pCi/m^3



BEAVER VALLEY WATER SAMPLING

Beaver Valley Power Station uses the Ohio River for station water and for the discharge of liquid effluents.

Raw river water is sampled monthly at three locations. Continuous composites are collected upstream at Arco Polymer, downstream 1.3 miles at Midland and 5.0 miles at East Liverpool, Ohio.

The samples were analyzed for gross beta activity, tritium and gamma emitters.

During 2003, traces of cesium-137 were detected in an August sample collected upstream from the facility. In 2004, traces of cesium-137 were detected in March upstream and April downstream samples. Presence of this isotope is attributable to fallout from weapons testing and the accident at Chernobyl in April 1986. No other reactor-related isotopes were detected in water samples. (See Appendices 2003 2.E and 2004 2.E)

BEAVER VALLEY MILK SAMPLING

Milk sampling near Beaver Valley Power Station continued monthly at local farms in 2003 and 2004. These grab samples, one of raw milk (11C1-11) and one of processed milk (07G2-11), were analyzed by gamma spectroscopy.

During 2003, a trace of cesium-137 was detected in the December raw sample. Presence of this isotope is attributable to fallout from weapons testing and the accident at Chernobyl in April 1986. Natural potassium-40 concentrations are equivalent to potassium content of 0.1 to 1.6 grams per liter in 2003. (See Appendix 2003 2.F)

No reactor related isotopes were detected in 2004 milk samples. Natural potassium-40 concentrations are equivalent to potassium content of 1.4 to 1.7 grams per liter in 2004. (See Appendix 2004 2.F)

BEAVER VALLEY FISH, PRODUCE AND SEDIMENT

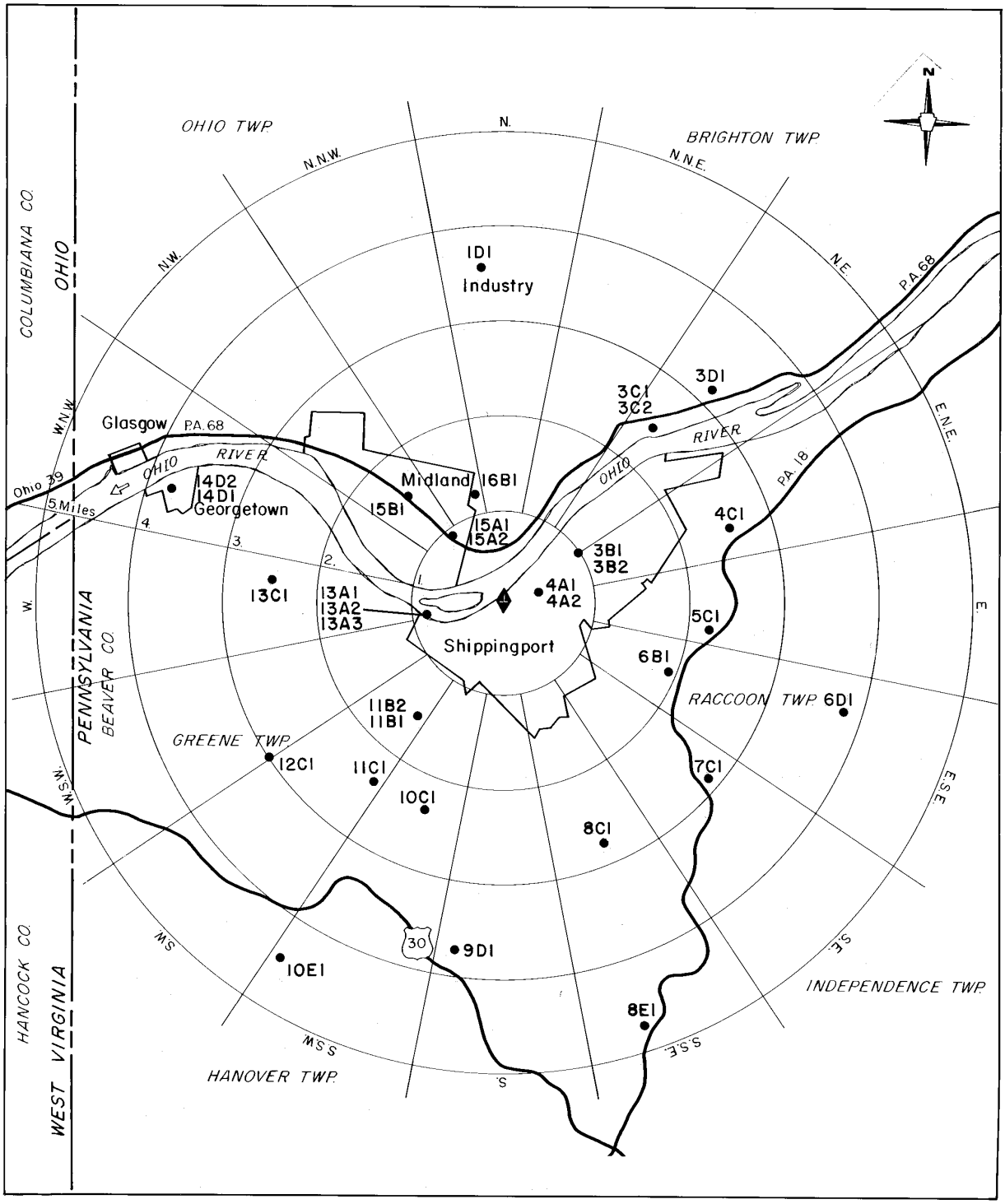
During 2003 and 2004, fish and sediment from the Ohio River and locally grown produce were collected by a utility contractor and split with BRP.

The semi-annual fish samples collected in the vicinity of the discharge were composites of bottom-feeders (catfish). Cabbage was sampled from gardens at two locations, 1.0 mile northeast and 3.8 miles west-northwest of the site. The sediment sample was collected downstream from the discharge point. Analysis was by gamma spectroscopy.

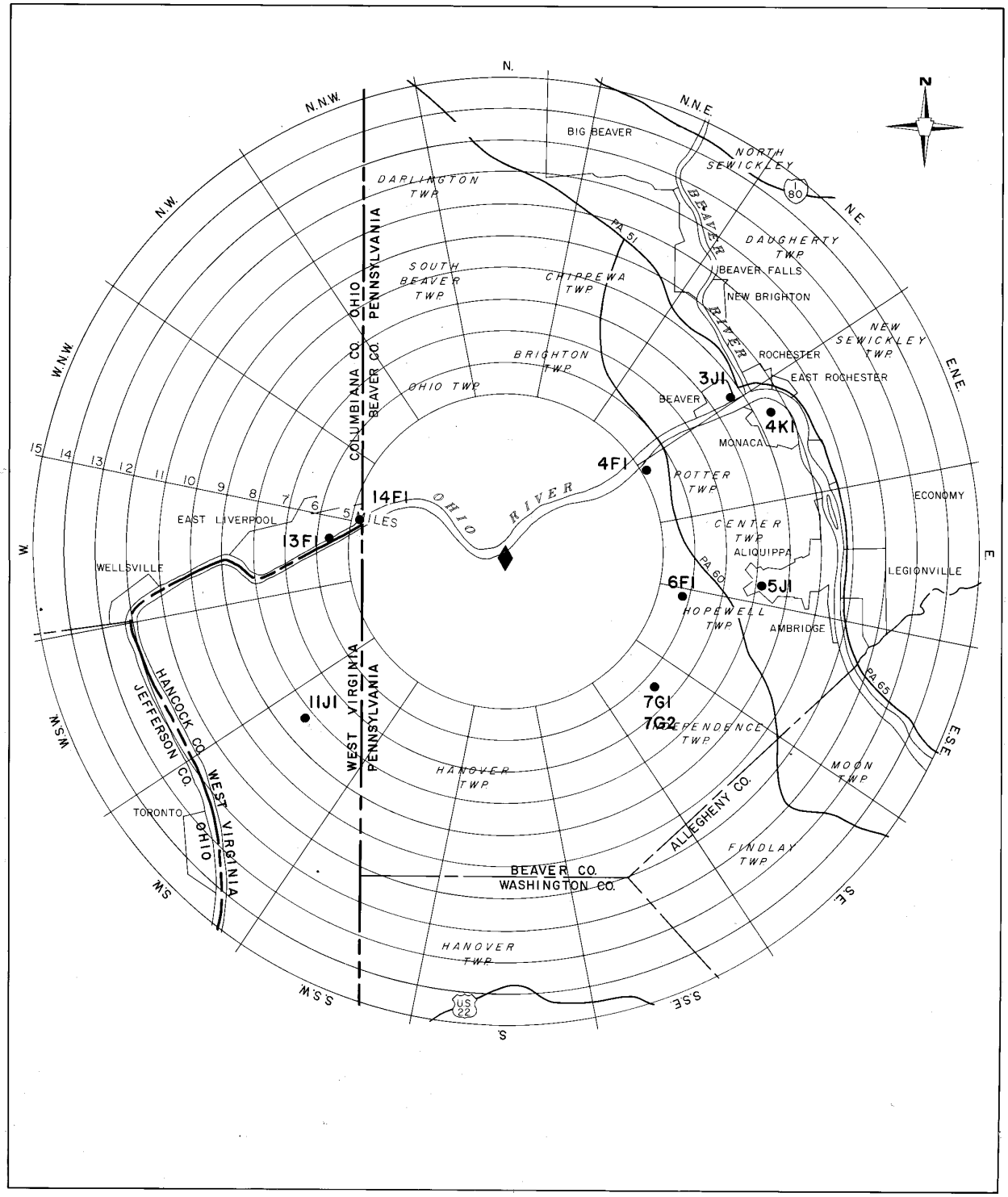
Cobalt-58, cobalt-60 and cesium-137 were detected in the 2003 sediment. Presence of these isotopes was attributed to station discharges. No reactor-related radionuclides were detected in the fish or produce samples. (See Appendix 2003 2.G)

Cesium-137 was detected in the 2004 sediment. Presence of this isotope was attributed to station discharges. No reactor-related radionuclides were detected in the fish or produce samples. (See Appendix 2004 2.G)

Beaver Valley Power Station
Locations of Environmental Monitoring Stations
Within 5 Miles of the Site



Beaver Valley Power Station
Locations of Environmental Monitoring Stations
Greater Than 5 Miles from the Site



LIMERICK GENERATING STATION

Limerick Generating Station Units 1 and 2 are boiling water reactors each rated at 1090 megawatts electrical (Mwe). The facility is located on the east bank of the Schuylkill River in Limerick Township, Montgomery County, Pennsylvania.

The facility is operated by Exelon Nuclear.

LIMERICK THERMOLUMINESCENCE DOSIMETRY

BRP TLD program in the environs of Limerick Generating Station includes 30 stations exchanged quarterly. The TLDs range in distance from 0.4 to 11.8 miles from the site.

Contractor cross-check dosimeters from Proxtronics, Inc. were at four locations to provide a check on GDS data. (See Appendix 2.A 2003 and 2A 2004) Dosimeters provided and read by the GDS were placed at all 30 stations during 2003 and 2004. The collocation of BRP-evaluated TLDs was established in 2002 to verify readings during the transition from in-house TLD reading to a TLD contractor service, GDS. This transition period was deemed complete and the collection of BRP-evaluated TLDs was discontinued at the end of the first quarter of calendar year 2003. (Comparison study of the GDS and BRP TLD results is shown in the 2002 Annual Report, Appendix 8.)

All dosimeters are changed by BRP staff.

The annual average exposure for the 30 GDS TLD locations was 45.3 milliroentgen in 2003 (See Appendix 2003 3.B), compared to 70.8 in 2002. The reduction in annual average exposure is attributed to a combination of suppression of terrestrial environmental exposure by snow cover during the first quarter and the slightly lower overall sensitivity of the contractor TLDs used exclusively in 2003. The annual average for the four Proxtronic, Inc. cross-check TLDs collocated with GDS TLDs was 52.5 milliroentgen without correction for control values. The corresponding GDS values were 48.6 milliroentgen (control corrected).

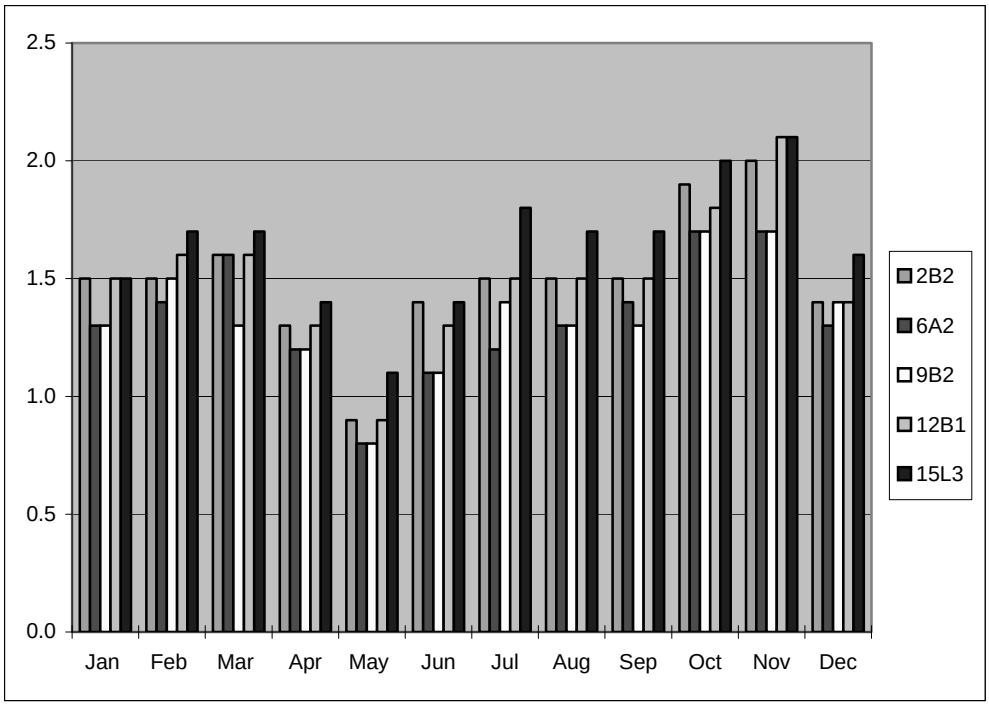
The annual average exposure for the 30 GDS TLD locations was 46.3 milliroentgen in 2004. (See Appendix 2004 3.B) The annual average for the four Proxtronics, Inc. cross-check TLDs collocated with GDS TLDs was 47.9 milliroentgen with correction for control values. The corresponding GDS values were 55.4 milliroentgen (control corrected). (See Appendix 2004 3.A)

LIMERICK AIR SAMPLING

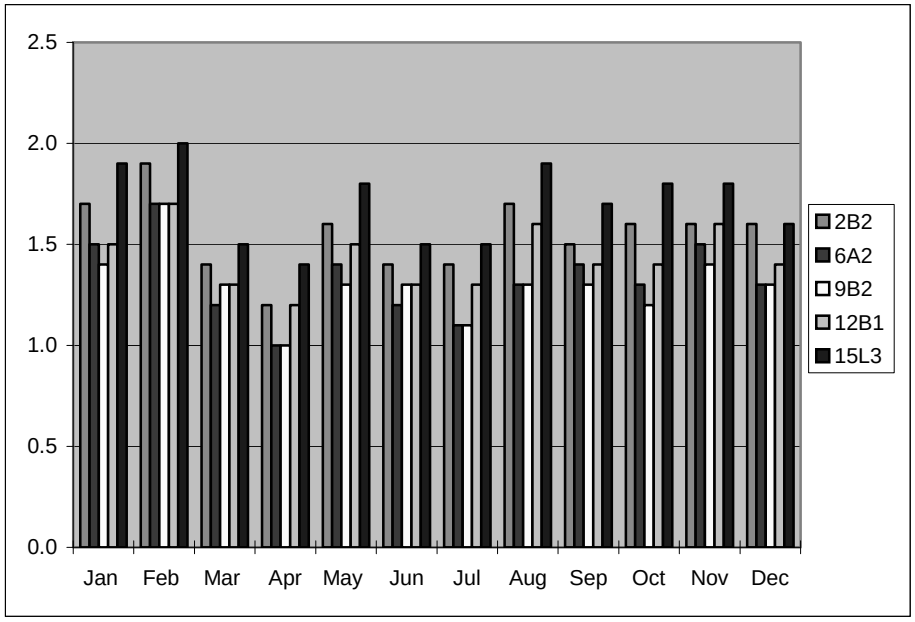
In 2003 and 2004, air sampling in the environs of Limerick Generating Station continued at four stations. A control sampler is located at Harrisburg. (See TMI air sampling data and Appendices 2003 6C.5 and 2004 6.C.5.) The samplers continuously collect air particulates and radionuclides. The particulate filters were individually analyzed for gross activity and composited quarterly for gamma spectrum analysis. Activated charcoal canisters impregnated with TEDA, a chelating agent, were analyzed individually by gamma spectroscopy for iodine-131. The filters and canisters were changed by BRP on a weekly basis.

The airborne gross activity in the environs of Limerick was observed to be relatively uniform throughout both years. No airborne iodine-131 was detected. Air-monitoring data from Limerick is similar to analogous data from other nuclear power plants in Pennsylvania and the control station (15L3) at Harrisburg. (See Appendices 2003 3.C and 3.D and 2004 3.C and 3.D)

2003
Average Gross Beta Concentrations in Airborne Particulates At Limerick Generating Station
x 0.01 pCi/m^3



2004
Average Gross Beta Concentrations in Airborne Particulates At Limerick Generating Station
x 0.01 pCi/m^3



LIMERICK WATER SAMPLING

The Limerick Generating Station uses the Schuylkill River for station water and for the discharge of effluents.

Raw river water is sampled at two locations. The upstream sample is collected at the Limerick intake, and the downstream sample is collected at Vincent Dam, 1.7 miles downstream. Finished drinking water is sampled at the Philadelphia Suburban Water Co., 7 miles downstream. These monthly samples represent essentially continuous composites.

The samples were analyzed for gross beta activity, tritium and gamma emitters. No reactor related isotopes were detected in samples in 2003. A trace of cesium-137 was detected in the March sample at Philadelphia Suburban Water Co. during 2004. (See Appendices 2003 3.E and 2004 3.E)

LIMERICK MILK SAMPLING

Dairy operations were discontinued at location code 09C1 in December of 2003. A new sampling site was not established until March 2004 at 12C1 when monthly sampling resumed at this replacement site for 09C1. Sampling continued monthly throughout 2003 and 2004 at the farm at location code 10B1.

No reactor related isotopes were detected in milk samples collected in 2003 and 2004. Natural potassium-40 concentrations are equivalent to a potassium content of 1.5 to 1.7 grams per liter. (See Appendices 2003 3.F and 2004 3.F)

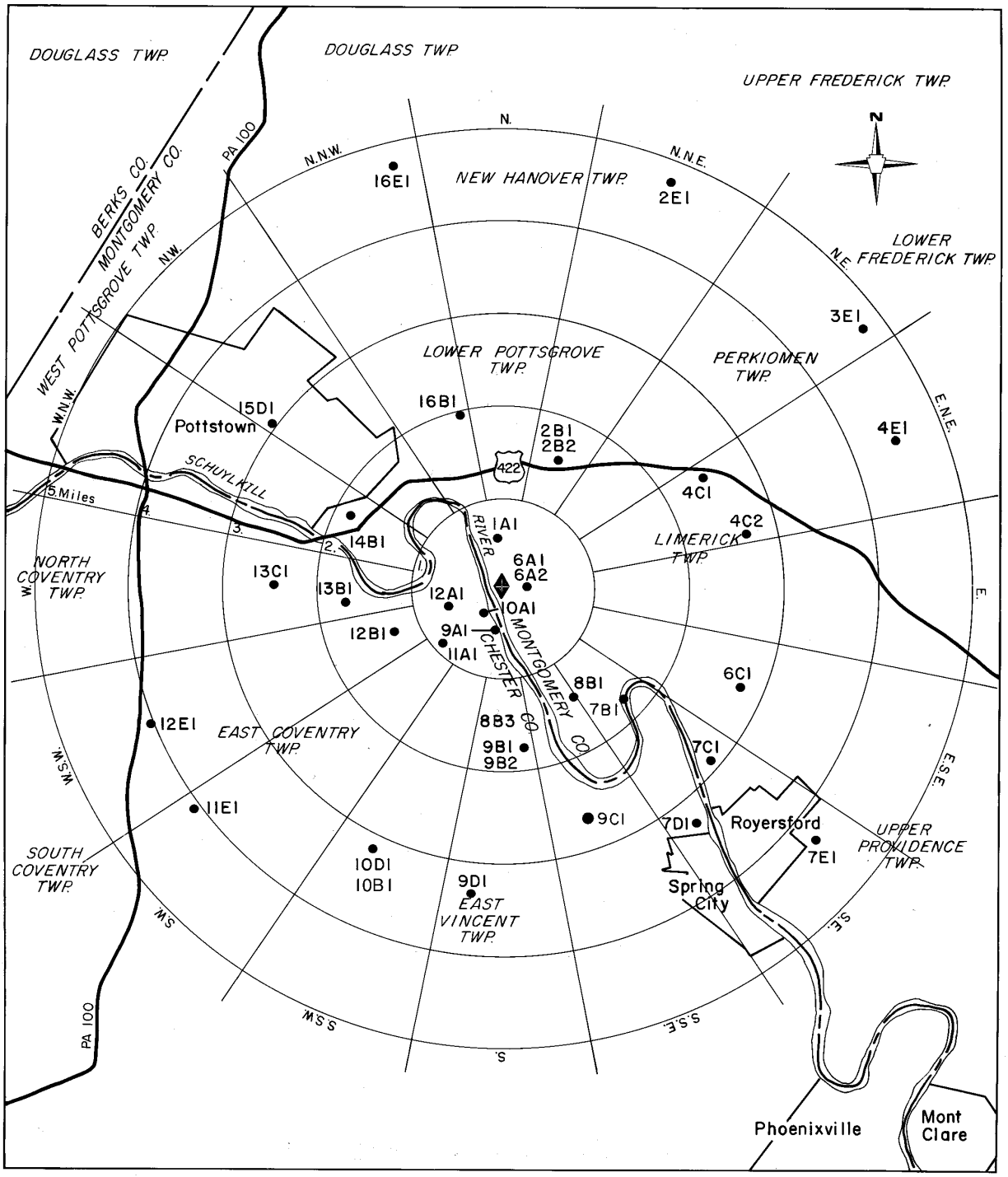
LIMERICK FISH, PRODUCE AND SEDIMENT

During the reporting period, fish and sediment from the Schuylkill River were collected by a utility contractor and split with BRP. BRP staff collected cabbage independently from a local garden.

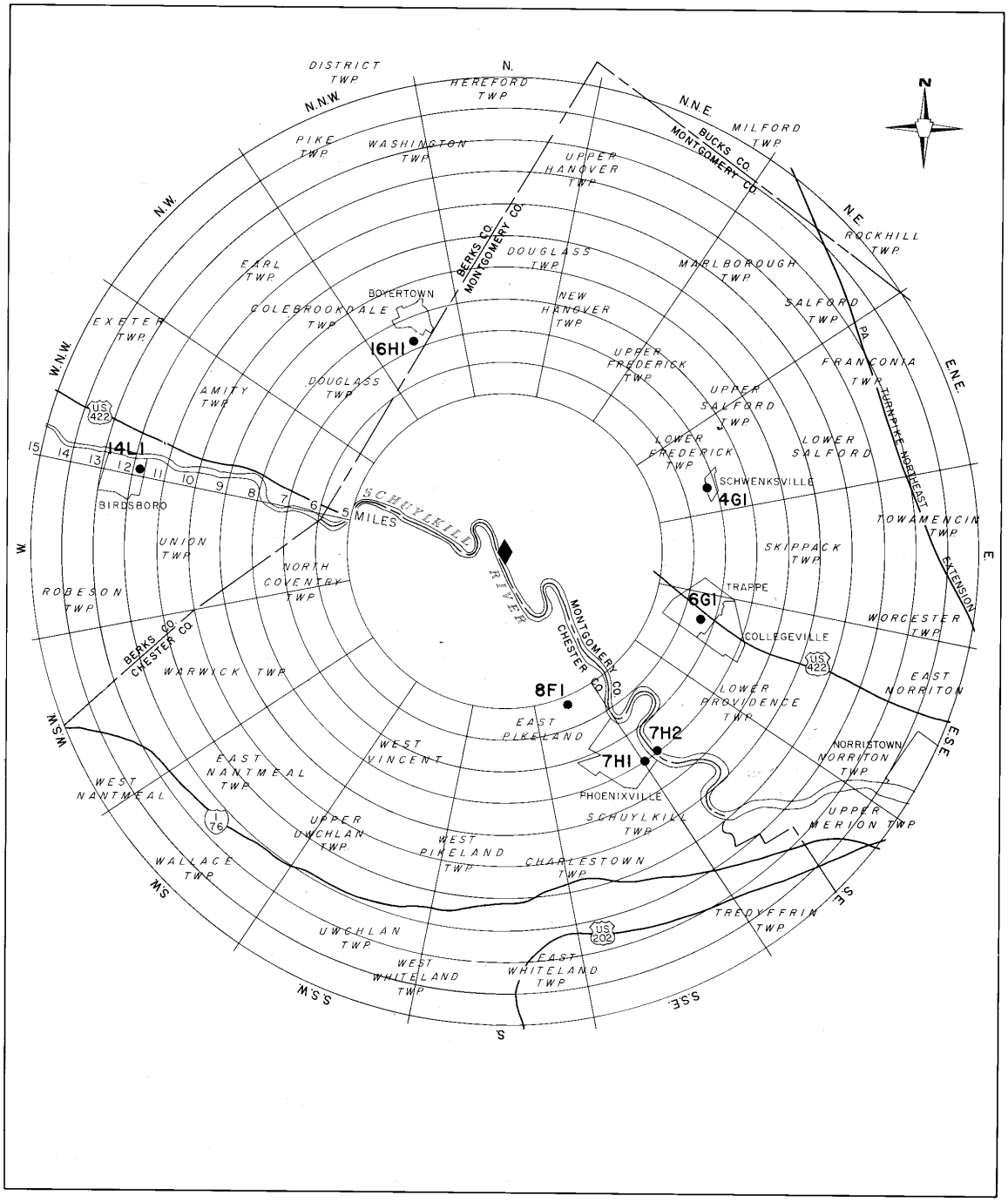
The semi-annual samples of bottom-feeding and predator fish were collected in the vicinity of the discharge. The produce samples of cabbage were collected from a garden located 0.9 mile southwest of the site. The sediment samples were collected approximately 1.5 miles downstream from the Limerick discharge.

Cesium-137 from station discharges was detected in both sediment samples in 2003 and 2004. Presence of this isotope is attributable to station discharges. Iodine-131 was detected in the May 2003 fish sample and the June 2003 sediment sample. Prior to this facility going into operation, and occasionally later, iodine-131 was detected in samples collected both upstream and down stream from the facility. Presence of this isotope is attributed to hospital discharges. No other reactor related isotopes were found in the other samples. (See Appendices 2003 3.G and 2004 3.G)

Limerick Generating Station
Locations of Environmental Monitoring Stations
Within 5 Miles of the Site



Limerick Generating Station
Locations of Environmental Monitoring Stations
Greater Than 5 Miles from the Site



PEACH BOTTOM ATOMIC POWER STATION

Peach Bottom Atomic Power Station Units 2 and 3 are boiling water reactors each rated at 1065 megawatts electrical (Mwe). The facility is located on the west bank of the Conowingo Pond of the Susquehanna River in Peach Bottom Township, York County, Pennsylvania.

The facility is operated by Exelon Nuclear.

PEACH BOTTOM THERMOLUMINESCENCE DOSIMETRY

BRP TLD program in the environs of Peach Bottom Atomic Power Station was expanded, beginning in October 1999, from 30 to 36 dosimeter stations exchanged quarterly. The six additional dosimeters were placed for the purpose of monitoring a dry cask storage. The TLD locations range in distance from 0.1 to 11.0 miles from the site.

Dosimeters provided by the GDS were placed at all 36 stations during 2003 and 2004. The collocation of BRP-evaluated TLDs was established in 2002 to verify readings during the transition from in-house TLD reading to a TLD contractor service, GDS. This transition period was deemed complete and the collocation of BRP-evaluated TLDs was discontinued at the end of the first quarter of calendar year 2003. (Comparison study of the GDS and BRP TLD results is shown in the 2002 Annual Report, Appendix 8.)

All dosimeters are changed by BRP staff.

In 2003, the average annual exposure for the monitoring program's 36 GDS TLD locations was 42.0 milliroentgen as compared to 66.8 milliroentgen in 2002. (See Appendix 2003 4.B) The average annual dose for the four Proxtronics, Inc. TLDs collocated with cross-check TLDs was 39.2 milliroentgen with correction for control values. The corresponding Proxtronics, Inc. cross check value was 45.3 milliroentgen control corrected. (See Appendix 2003 4.A) The reduction in annual average exposure may be attributed to a combination of suppression of terrestrial environmental exposure by snow cover during the first quarter and the slightly lower overall sensitivity of the contractor TLDs used exclusively in 2003.

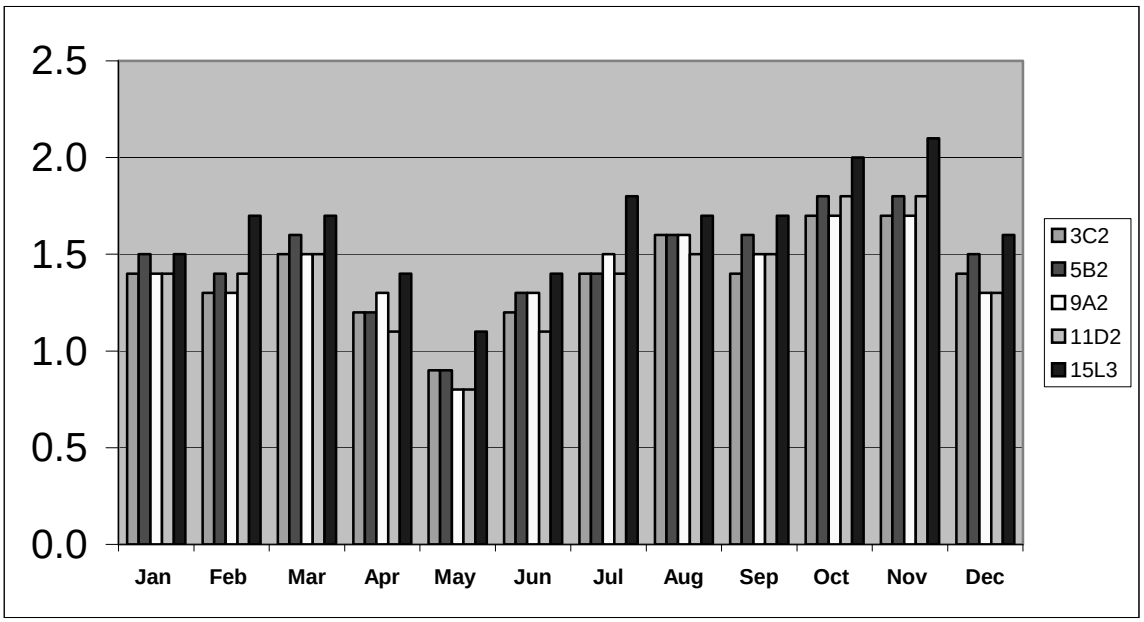
In 2004, the average annual exposure for the monitoring program's 36 GDS TLD locations was 46.1 milliroentgen. (See Appendix 2004 4.B) The average annual dose for the four Proxtronics, Inc. TLDs collocated with cross-check TLDs was 43.6 milliroentgen with correction for control values. The corresponding Proxtronics, Inc. cross-check value was 44.7 milliroentgen control corrected. (See Appendix 2004 4.A)

PEACH BOTTOM AIR SAMPLING

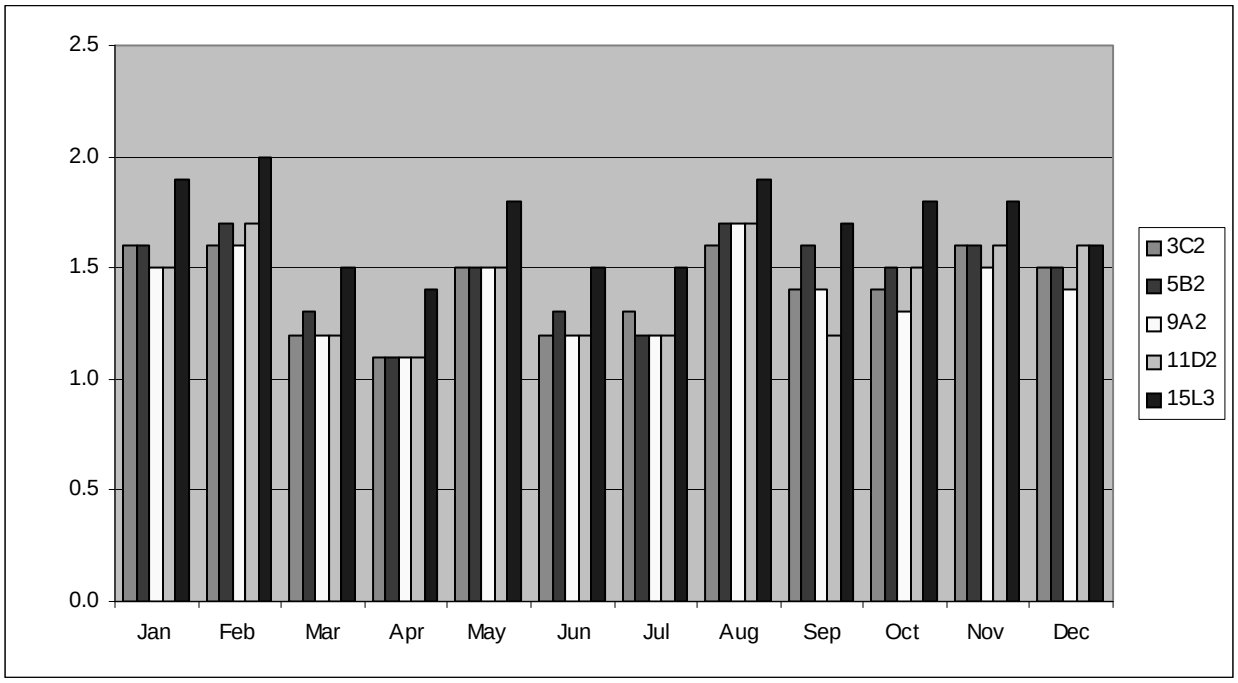
Air sampling in the environs of Peach Bottom continued at four stations in 2003 and 2004. A control sampler is located at Harrisburg. (See TMI air sampling data.) The samplers continuously collect air particulates and radioiodines. The particulate filters were analyzed individually for gross activity and composited quarterly for gamma spectrum analysis. Activated charcoal canisters impregnated with TEDA, a chelating agent, were analyzed individually by gamma spectroscopy for iodine-131. The filter and canisters were changed by BRP on a weekly basis.

The airborne gross activity in the environs of Peach Bottom was observed to be relatively uniform throughout both years. No airborne iodine-131 was detected. Air-monitoring data from Peach Bottom is similar to analogous data from other nuclear power plants in Pennsylvania and the control station (15L3) in Harrisburg. (See Appendices 2003 and 2004 4.C and 4.D)

2003
Average Gross Beta Concentrations in Airborne Particulates At Peach Bottom Atomic Power Station
x 0.01 pCi/m^3



2004
Average Gross Beta Concentrations in Airborne Particulates At Peach Bottom Atomic Power Station
x 0.01 pCi/m^3



PEACH BOTTOM WATER SAMPLING

The Peach Bottom Atomic Power Station uses the Susquehanna River (Conowingo Pond) for station water and discharge of effluents.

Raw river water is sampled at two locations, upstream at Holtwood Power Station and downstream at Conowingo Dam. The monthly samples essentially represent continuous composites.

The samples were analyzed for gross beta activity, tritium and gamma emitters.

No reactor related isotopes were detected in samples collected during 2003 and 2004. (See Appendices 2003 4.E and 2004 4.E)

PEACH BOTTOM MILK SAMPLING

In 2003 and 2004, milk sampling near Peach Bottom Atomic Power Station continued monthly at local farms. The grab samples of raw milk were analyzed by gamma spectroscopy.

No reactor-related isotopes were detected in samples collected during 2003. Natural potassium-40 concentrations are equivalent to a potassium content of 1.5 to 1.7 grams per liter. (See Appendix 2003 4.F)

A trace of cesium-137 was detected in a 2004 milk sample collected at the 13A1 farm location. Natural potassium-40 concentrations are equivalent to a potassium content of 1.4 to 1.7 grams per liter in 2004. (See Appendix 2004 4.F.)

PEACH BOTTOM FISH, PRODUCE AND SEDIMENT

During the reporting period, fish and sediment from Conowingo Pond were collected by a utility contractor and split with BRP. The locally grown produce sample of lettuce was collected by BRP personnel.

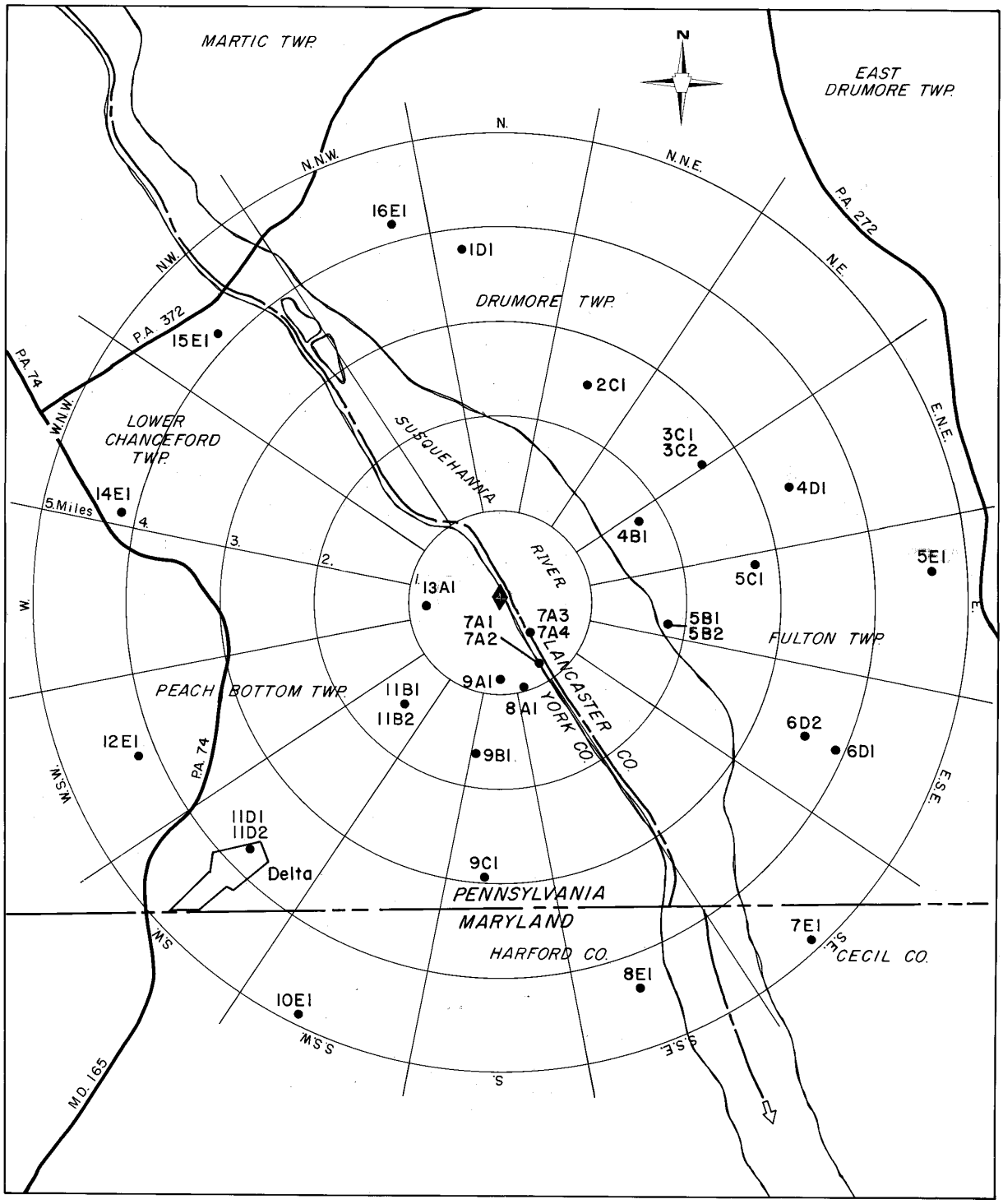
The samples of predatory and bottom-feeding fish were collected downstream from the station discharge. The lettuce was sampled from a garden located 1.2 miles south-southwest of the site. The sediment sample was collected downstream of the discharge point. Analysis was by gamma spectroscopy.

The 2003 sediment sample contained low levels of cobalt-60, zinc-65 and cesium-137. No reactor-related radionuclides were detected in the 2003 produce or fish samples.

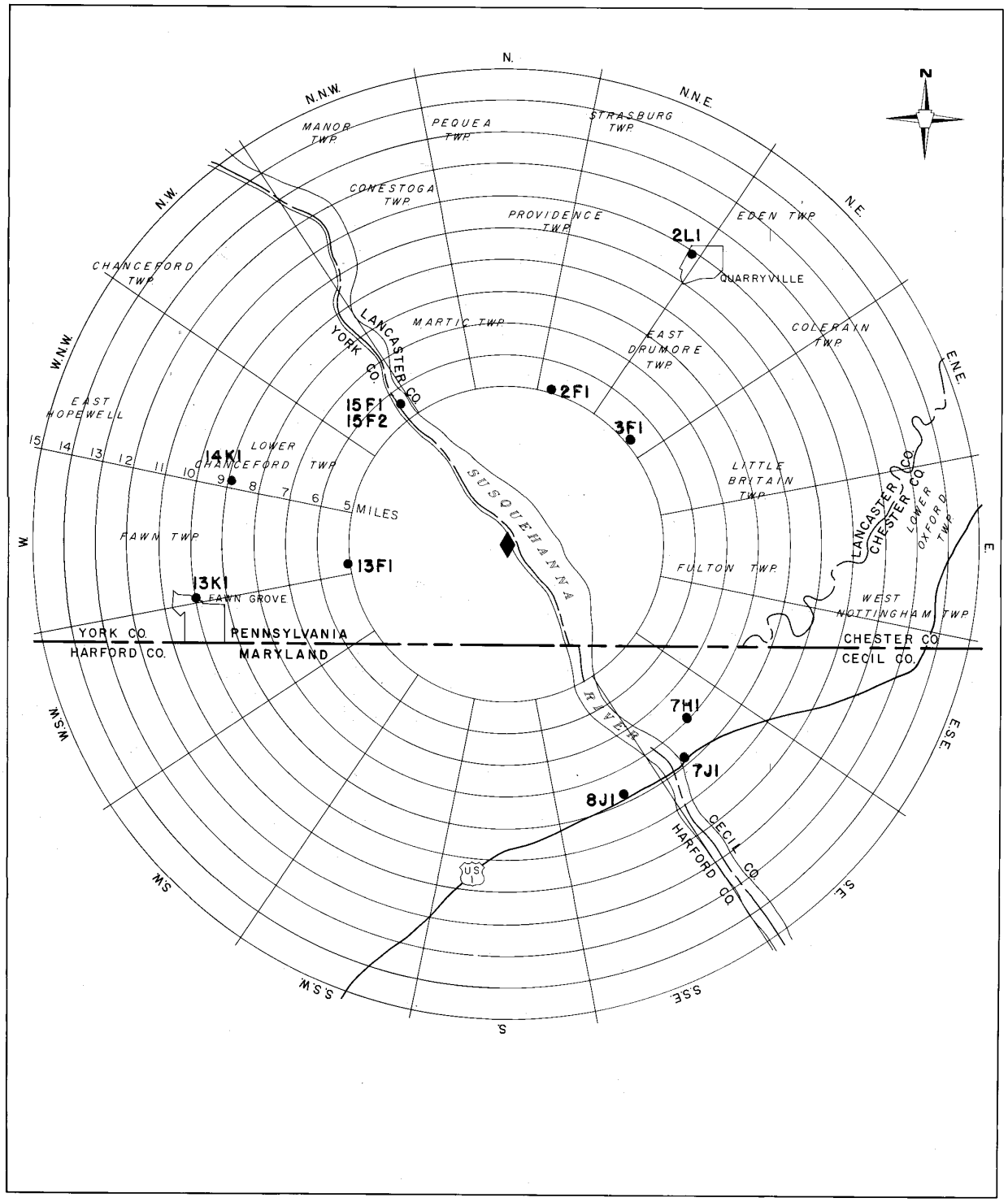
The 2004 sediment sample had small amounts of cobalt-60 and cesium-137. The 2004 bottom-feeding fish sample had a trace of cesium-137. No reactor-related radionuclides were detected in the 2004 produce sample.

Presence of these isotopes was attributed to station discharge and within US NRC allowable limits. (See Appendices 2003 and 2004 4.G)

Peach Bottom Atomic Power Station
Locations of Environmental Monitoring Stations
Within 5 Miles of the Site



Peach Bottom Atomic Power Station
Locations of Environmental Monitoring Stations
Greater than 5 Miles from the Site



SUSQUEHANNA STEAM ELECTRIC STATION

Susquehanna Steam Electric Station Units 1 and 2 are boiling water reactors each rated at 1065 megawatts electrical (Mwe). The site is located on the west bank of the Susquehanna River in Salem Township, Luzerne County, Pennsylvania.

The facility is operated by PPL.

SUSQUEHANNA STEAM THERMOLUMINESCENCE DOSIMETRY

BRP TLD program in the environs of Susquehanna Steam Electric Station includes 30 dosimeter stations exchanged quarterly. The locations range in distance from 0.3 to 19.6 miles from the site.

Dosimeters provided by the GDS were placed at all 30 stations during 2003 and 2004. The collocation of BRP-evaluated TLDs was established in 2002 to verify readings during the transition from in-house TLD reading to a TLD contractor service, GDS. This transition period was deemed complete and the collocation of BRP-evaluated TLDs was discontinued at the end of the first quarter of calendar year 2003. (Comparison study of the GDS and BRP TLD results is shown in the 2002 Annual Report, Appendix 8.)

All dosimeters are changed by BRP staff.

In 2003, the annual average exposure for the 30 GDS TLD locations was 43.4 compared to the 2002 annual average of 69.8 milliroentgen. In 2003, the annual average of the four cross-check collocated Proxtronics, Inc. TLDs was 44.1 with correction for control values, and the Proxtronics, Inc. cross-check contractor TLDs was 49.3 milliroentgen (control corrected). (See Appendix 2003 5.B) The reduction in annual average exposure is attributed to a combination of suppression of terrestrial environmental exposure by snow cover during the first quarter and the slightly lower overall sensitivity of the contractor TLDs used exclusively in 2003.

In 2004, the average annual exposure for the monitoring program's 30 GDS TLD locations was 44.1 milliroentgen. (See Appendix 2004 5.B) The average annual dose for the four Proxtronics, Inc. TLDs collocated with cross-check TLDs was 43.7 milliroentgen with correction for control values. The corresponding Proxtronics, Inc. cross-check value was 47.9 milliroentgen control corrected. (See Appendix 2004 5.A)

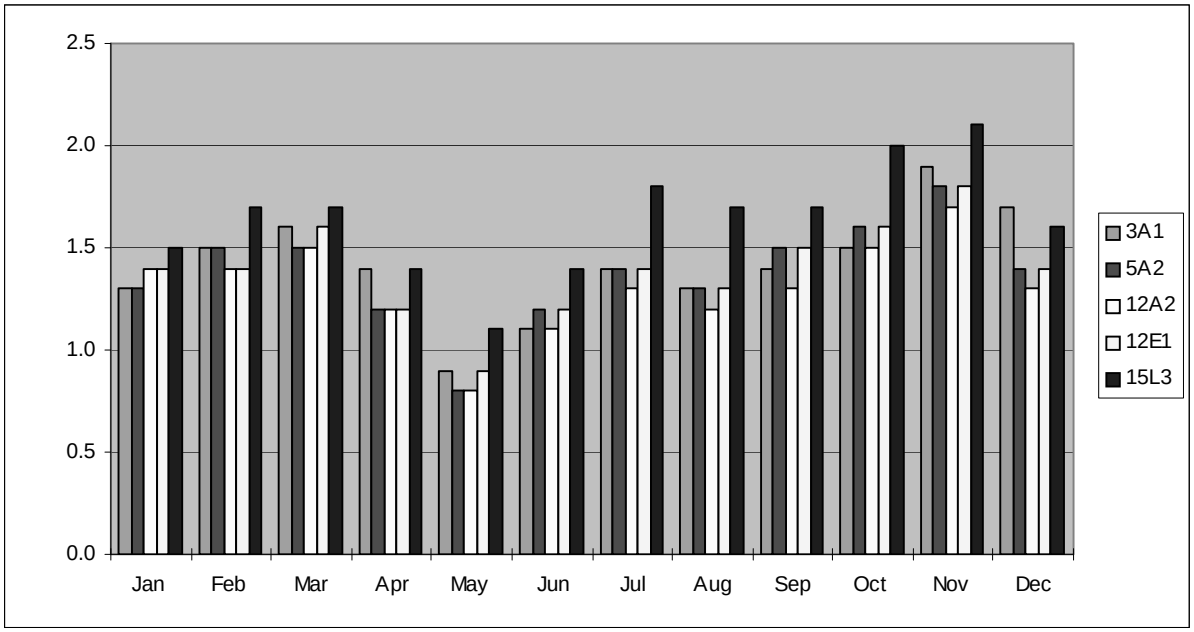
SUSQUEHANNA STEAM AIR SAMPLING

In 2003 and 2004, air sampling in the environs of the Susquehanna Steam Electric Station continued at four stations. A control sampler is located at Harrisburg. (See TMI air sampling data Appendices 2001 6.C.5 and 2002 6.C.5.)

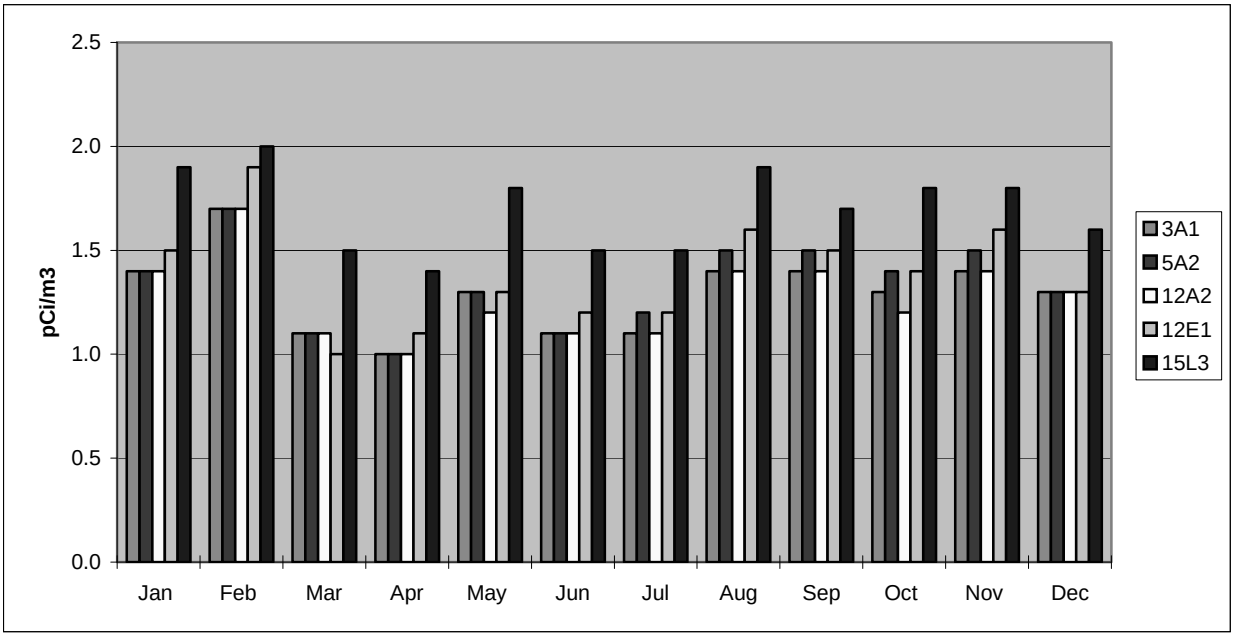
The samplers continuously collect air particulates and radionuclides. The particulate filters were analyzed individually for gross activity and composited quarterly for gamma spectrum analysis. Activated charcoal canisters impregnated with TEDA, a chelating agent, were analyzed individually by gamma spectroscopy for iodine-131. The filters and canisters were changed by BRP on a weekly basis.

The airborne gross activity in the environs of the Susquehanna Steam Electric Station was observed to be relatively uniform throughout both years. No airborne iodine-131 was detected. Air-monitoring data from the Susquehanna Steam Electric Station is similar to analogous data from other nuclear power plants in Pennsylvania and the control station (15L3) at Harrisburg. (See Appendices 2003 and 2004 5.C and 5.D)

2003
Average Gross Beta Concentrations in Airborne Particulates At Susquehanna Steam Electric Station
x 0.01 pCi/m^3



2004
Average Gross Beta Concentrations in Airborne Particulates At Susquehanna Steam Electric Station
x 0.01 pCi/m^3



SUSQUEHANNA STEAM WATER SAMPLING

The Susquehanna Steam Electric Station uses the Susquehanna River for station water and the discharge of liquid effluents.

Raw river water is sampled at two locations. Weekly sampling for a monthly composite is conducted at the station's water intake on the Susquehanna River. The location near the discharge is also sampled weekly for a monthly composite. Finished drinking water is sampled downstream at the Danville municipal water treatment plant. This sample is collected daily for a monthly composite.

The samples were analyzed for gross beta activity, tritium and gamma emitters. No reactor related isotopes were detected in any of the samples. (See Appendices 2003 5.E and 2004 5.E)

SUSQUEHANNA STEAM MILK SAMPLING

During 2003 and 2004, milk sampling near the Susquehanna Steam Electric Station continued monthly at two local farms. The grab samples of raw milk were analyzed by gamma spectroscopy.

During 2003 and 2004, no reactor related isotopes were detected in any of the samples. Natural potassium-40 concentrations are equivalent to potassium content of 1.5 to 1.9 grams per liter during these two years. (See Appendices 2003 5.F and 2004 5.F)

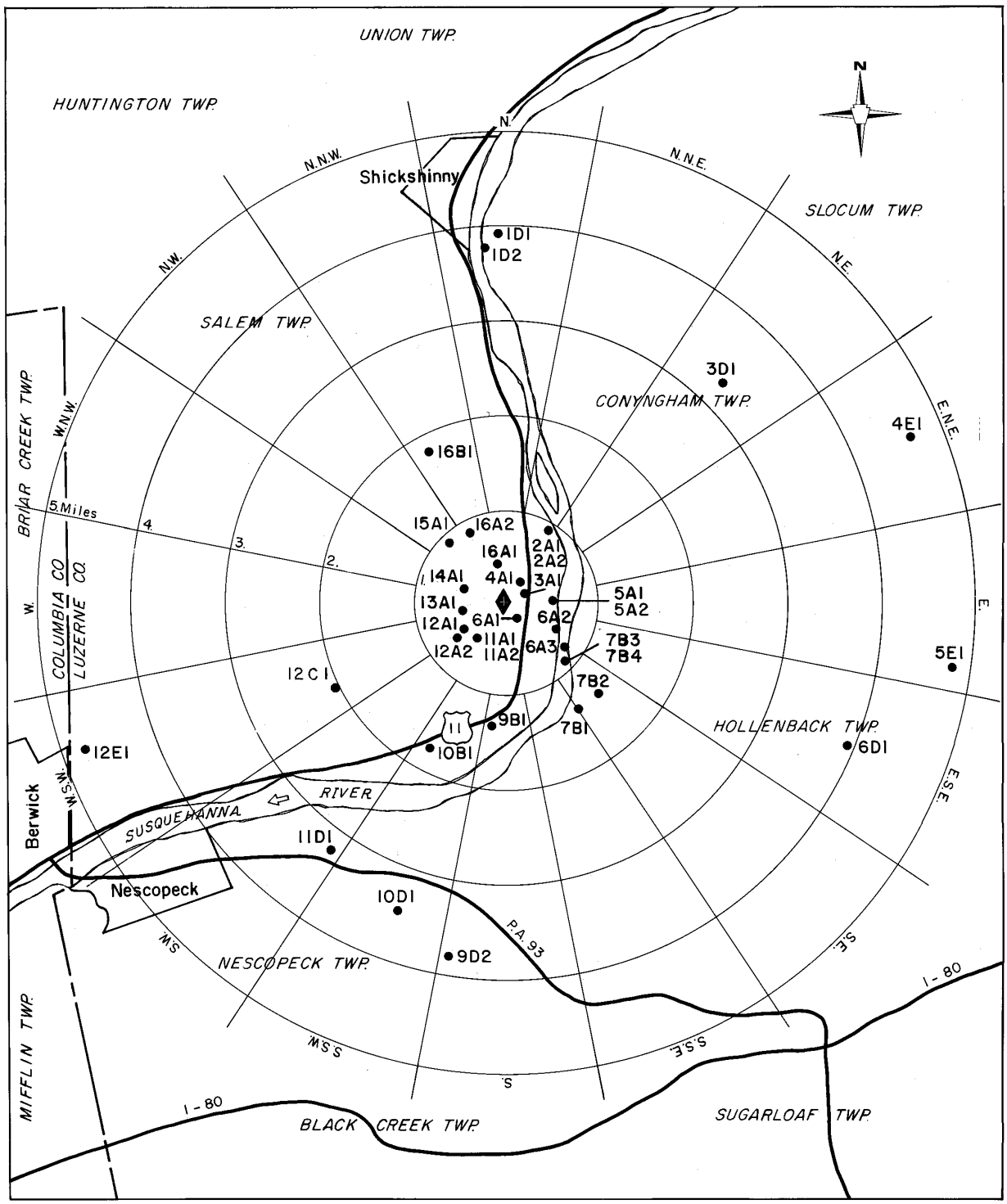
SUSQUEHANNA STEAM FISH, PRODUCE AND SEDIMENT

During both years, fish and sediment from the Susquehanna River and locally grown produce were collected by a utility contractor and split with BRP.

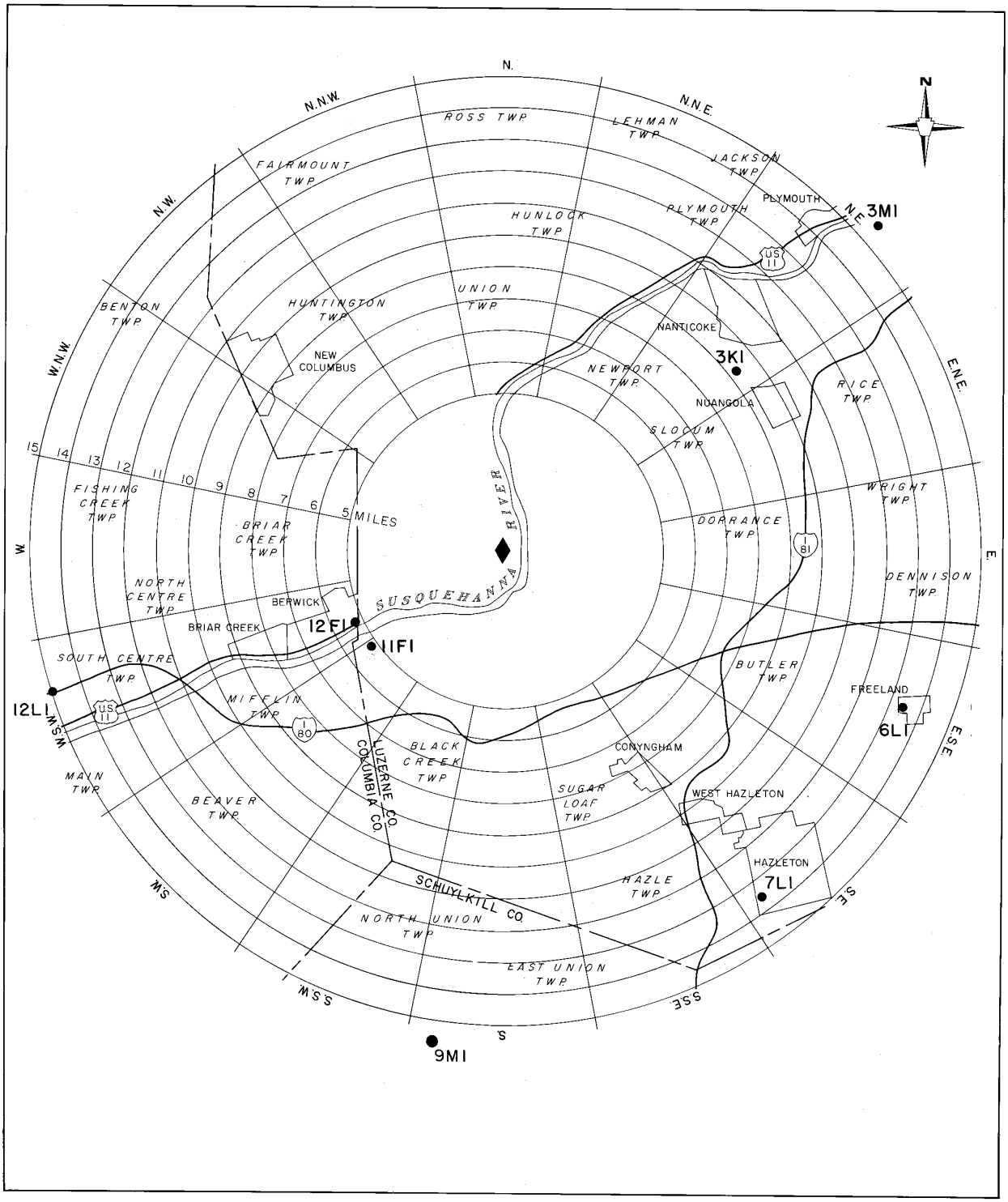
The fish sample was collected in the vicinity of the discharge. The produce sample of potatoes was collected from a produce farm 3.3 miles southwest of the plant. The produce farm irrigates with water drawn from downstream of the station discharge. Sediment was collected downstream of the discharge. Analysis was by gamma spectroscopy.

Cesium-137 was detected in 2003 and 2004 sediment samples collected from both upstream and downstream of station discharges and could be attributed to fallout from weapons testing or the Chernobyl accident. No reactor-related radioisotopes were detected in any fish or produce samples. (See Appendices 2003 5.G and 2004 5.G)

Susquehanna Steam Electric Station
Locations of Environmental Monitoring Stations
Within 5 Miles of the Site



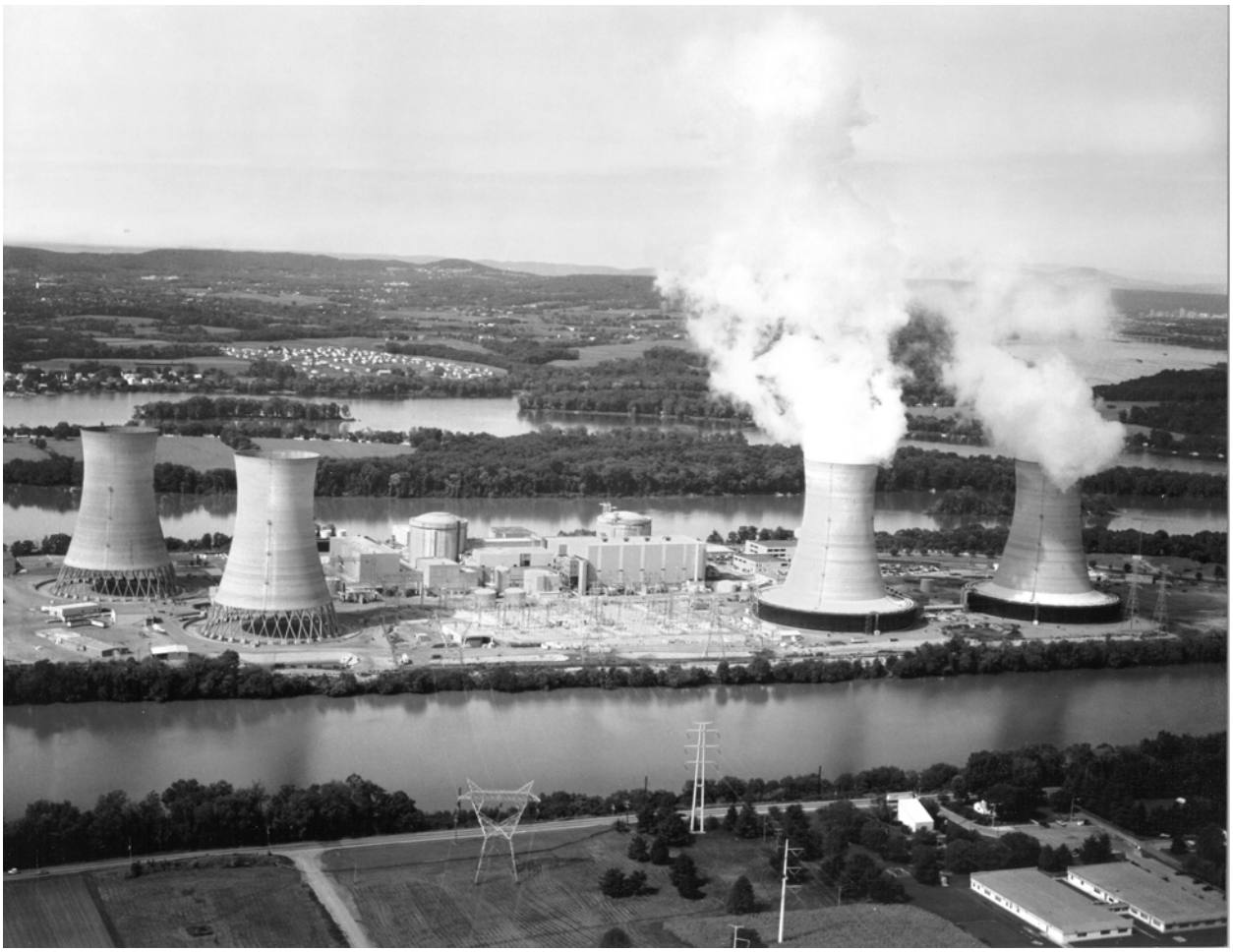
Susquehanna Steam Electric Station
Locations of Environmental Monitoring Stations
Greater than 5 Miles from the Site



THREE MILE ISLAND NUCLEAR STATION

Three Mile Island Nuclear Station Unit 1 is a pressurized water reactor rated at 871 megawatts electrical (Mwe). The facility is located on an island in the Susquehanna River, Londonderry Township, Dauphin County, Pennsylvania.

The facility is operated by Exelon Nuclear.



THREE MILE ISLAND THERMOLUMINESCENCE DOSIMETRY

BRP TLD program in the environs of the Three Mile Island Nuclear Station includes 30 dosimeter stations exchanged quarterly. The locations range in distance from 0.5 to 16.4 miles from the site.

Dosimeters provided by the GDS were placed at all 30 stations during 2003 and 2004. The collocation of BRP-evaluated TLDs was established in 2002 to verify readings during the transition from in-house TLD reading to a TLD contractor service, GDS. This transition period was deemed complete and the collocation of BRP-evaluated TLDs was discontinued at the end of the first quarter of calendar year 2003. (Comparison study of the GDS and BRP TLD results is shown in the 2002 Annual Report, Appendix 8.)

All dosimeters are changed by BRP staff.

In 2003 the average annual exposure for the 30 GDS TLD locations was 33.9 milliroentgen as compared to 56.9 in 2002. (See Appendix 2003 6.B) The average annual dose for the four Proxtronics, Inc. TLDs collocated with contractor cross-check TLDs was 28.5 milliroentgen with correction for controls. The corresponding Proxtronics, Inc. cross-check TLD value average was 23.1 milliroentgen (control corrected). The reduction in annual average exposure is attributed to a combination of suppression of terrestrial environmental exposure by snow cover during the first quarter and the slightly lower overall sensitivity of the contractor TLDs used exclusively in 2003.

In 2004, the average annual exposure for the monitoring program's 30 GDS TLD locations was 39.8 milliroentgen. (See Appendix 2004 6.B) The average annual dose for the four Proxtronics, Inc. TLDs collocated with cross-check TLDs was 37.32 milliroentgen with correction for control values. The corresponding Proxtronics, Inc. cross-check value was 27.2 milliroentgen control corrected. (See Appendix 2004 6.A)

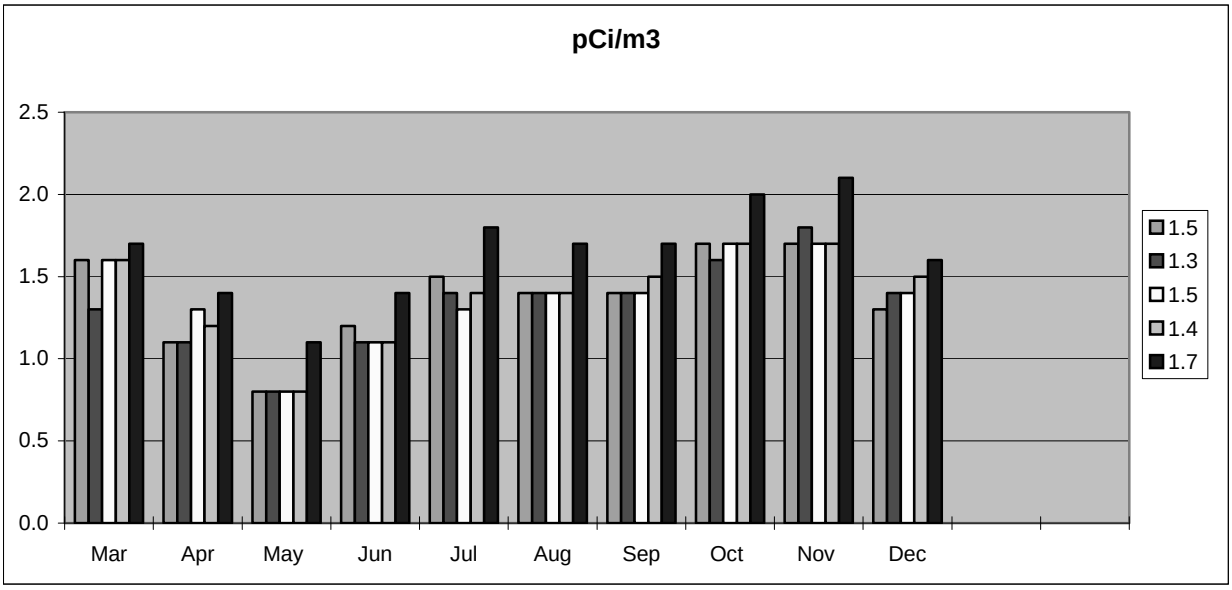
THREE MILE ISLAND AIR SAMPLING

In 2003 and 2004, air sampling in the environs of Three Mile Island continued at four stations. A control sampler is located at Harrisburg.

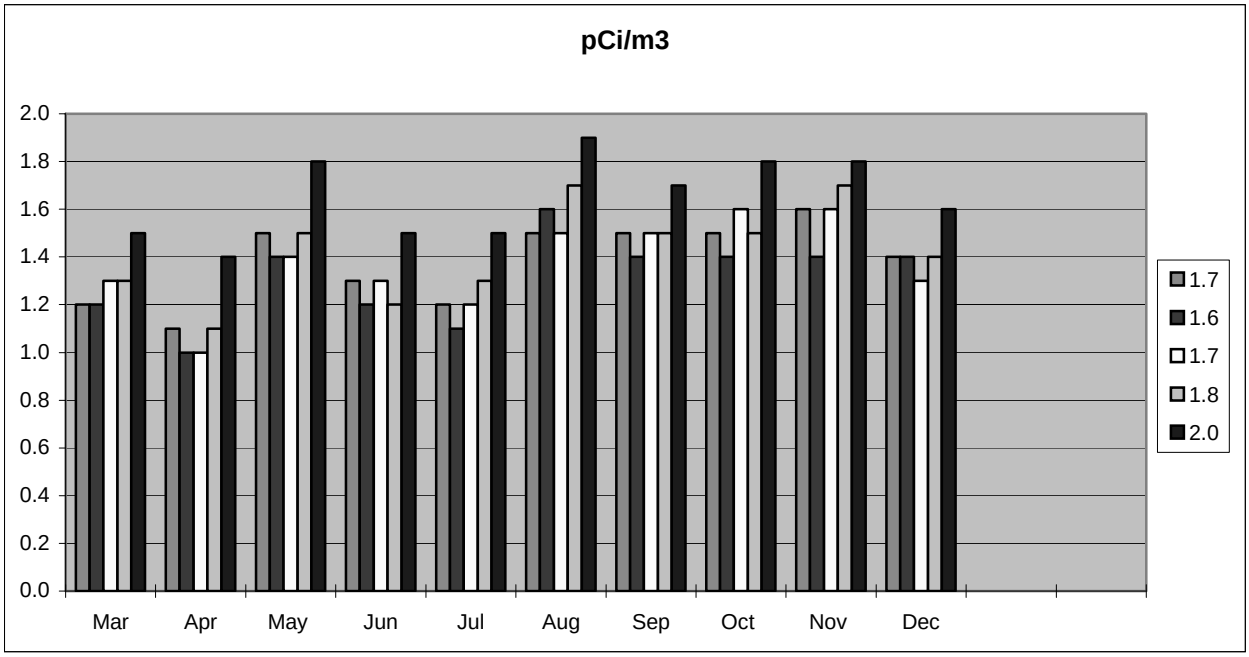
The samplers continuously collect air particulates and radioiodines. The particulate filters were individually analyzed for gross activity and composited quarterly for gamma spectrum analysis. Activated charcoal canisters impregnated with TEDA, a chelating agent, were individually analyzed by gamma spectroscopy for iodine-131. The filters and canisters were changed by BRP on a weekly basis.

The airborne gross activity in the environs of Three Mile Island was observed to be relatively uniform throughout both years. No airborne iodine-131 was detected. Air-monitoring data from Three Mile Island is similar to analogous data from other nuclear power plants in Pennsylvania and the control station (15L3) at Harrisburg. (See Appendices 2003 and 2004 6.C and 6.D)

2003
Average Gross Beta Concentrations In Airborne Particulates Around Three Mile Island
x 0.01 pCi/m^3



2004
Average Gross Beta Concentrations In Airborne Particulates Around Three Mile Island
x 0.01 pCi/m^3



THREE MILE ISLAND WATER SAMPLING

The Three Mile Island Nuclear Station uses the Susquehanna River for station water and discharge of liquid effluents.

Finished drinking water is sampled upstream at the Steelton Water Treatment Plant and downstream at the Columbia Water Co. The monthly samples represent essentially continuous composites.

The samples were analyzed for gross beta activity, tritium and gamma emitters. Tritium was detected, well within US EPA Limits, in 2003 August and September samples collected at the Columbia Water Co., possibly attributable to station discharges. Trace amounts of cecium-137, attributable to weapons testing and Chernobyl fallout, were present in 2004 March and June samples from the Columbia Water Co. (See Appendices 2003 6.E and 2004 6.E)

All data compare favorably with the USEPA National Interim Primary Drinking Water regulations. Those criteria were 15 pCi/L gross alpha, 50 picocuries beta and 20,000 pCi/L tritium before the December 2000 revisions went in effect. Drinking water criteria, at present, maintain the 15 pCi/L gross alpha limit, but make beta and tritium criteria contingent on activity levels for isotopes according to US EPA requirements and are not analyzed BRP.

THREE MILE ISLAND MILK SAMPLING

In 2003, monthly milk sampling near Three Mile Island Nuclear Station continued monthly at two local farms.

The grab samples were analyzed by gamma spectroscopy.

No reactor related isotopes were detected in any samples. Natural potassium-40 concentrations are equivalent to potassium content of 1.2 to 1.8 grams per liter. (See Appendices 2003 6.F and 2004 6.F)

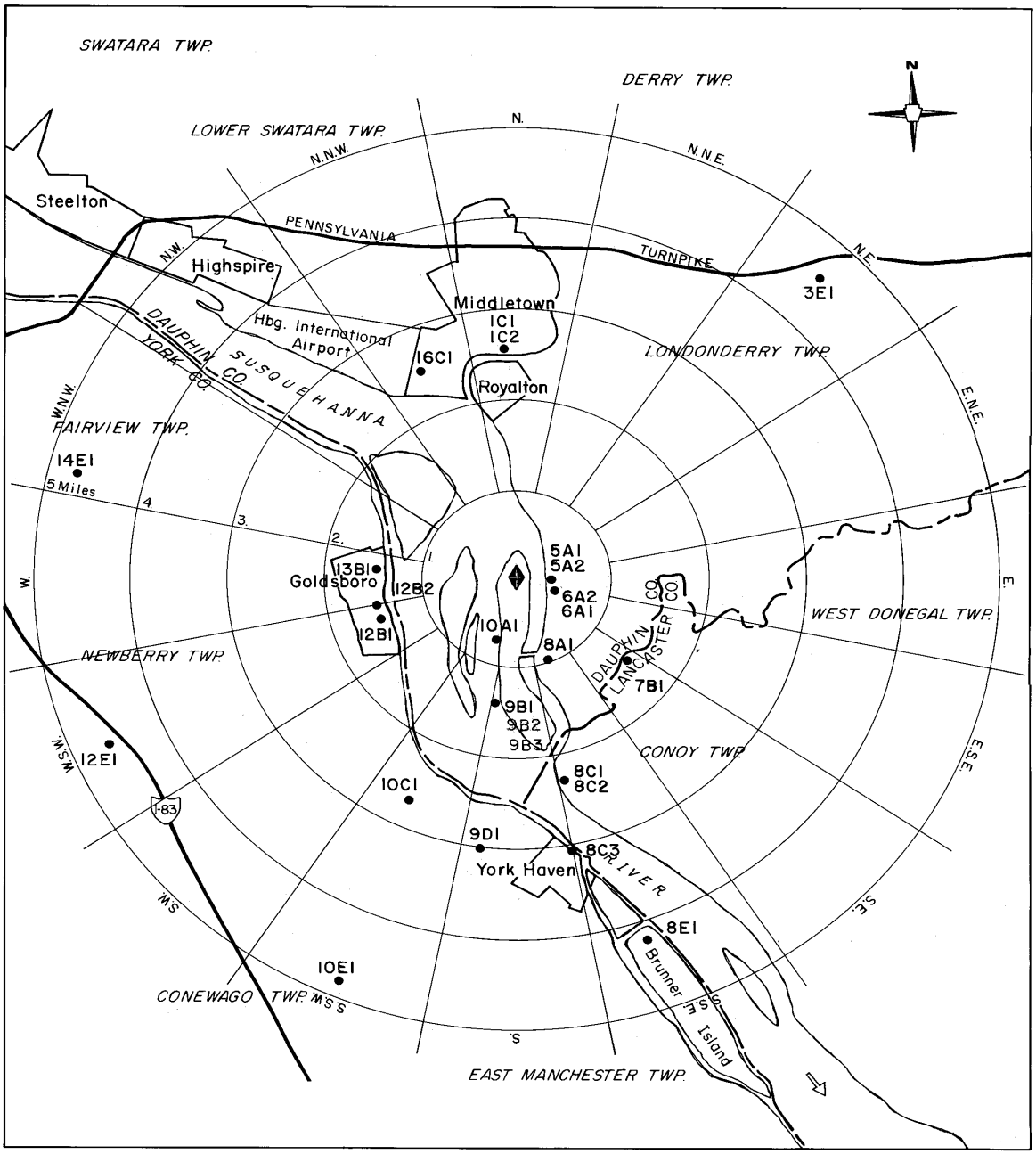
THREE MILE ISLAND FISH, PRODUCE AND SEDIMENT

During the reporting period, vegetation and sediment from the Susquehanna River were collected by the utility and split with BRP.

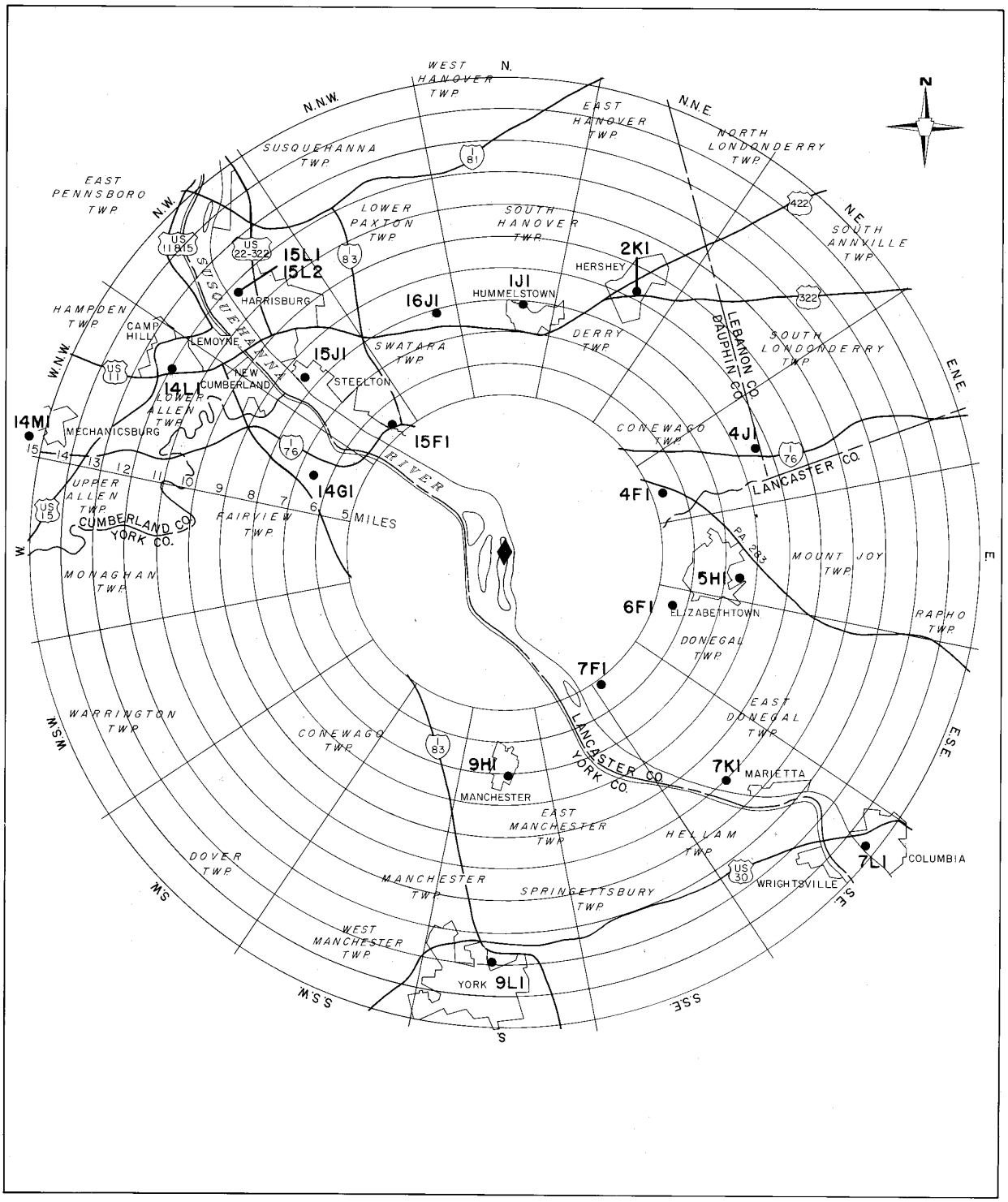
The fish samples were collected in the vicinity of the discharge. The produce samples of cabbage were collected from a truck garden 0.4 miles east of the plant. Sediment was collected upstream and downstream of the discharge. Analysis was by gamma spectroscopy.

Cesium-137 was detected in both the 2003 and 2004 upstream control and downstream sediment samples attributable to fallout from weapons testing and the accident at Chernobyl in April 1986. No reactor-related radioisotopes were detected in the produce or fish samples. (See Appendices 2003 6.E and 2004 6.E)

Three Mile Island Nuclear Station
Locations of Environmental Monitoring Stations
Within 5 Miles of the Site



Three Mile Island Nuclear Station
Locations of Environmental Monitoring Stations
Greater Than 5 Miles from the Site



QUEHANNA FACILITY

QUEHANNA FACILITY

Since 1967, BRP has provided technical support to the Bureau of Forestry/Department of Conservation and Natural Resources managing an industrial radiation facility located in Clearfield County's Quehanna Wild Area. The facility was originally built by Curtiss-Wright as a research facility, but was donated to Pennsylvania State University in 1960. In 1967, Penn State transferred its interest to the Commonwealth. PermaGrain Products, Inc., which operated portions of the facility in the manufacture of irradiated flooring products, ceased operations and declared bankruptcy in December 2002. The contracted cleanup company, SCIENTECH, assumed responsibility for security of the facility December 22.

Parts of the facility were contaminated with strontium-90 and cobalt-60 resulting from activities of previous owners/tenants. Decommissioning and remediation of contaminated areas by a contractor overseen by BRP began in spring 1998. Air-monitor stations were installed July 20-21, 1997. In January 1999, 15 environmental dosimeters were placed within a 15-mile radius of the PermaGrain clean up project. These were reduced to five dosimeters in December 2001.

SCIENTECH declared the site clean up completed and began confirmation surveys in spring 2004. Environmental monitoring was discontinued in July 2004. Surveys were completed at the end of December 2004, and the Final Status Survey Report was submitted to NRC. NRC will determine when the site is suitable for release.

QUEHANNA THERMOLUMINESCENCE DOSIMETRY

BRP TLD program in the environs of the former Permagrain Products Inc. Facility includes five dosimeter stations exchanged quarterly during 2003 and up to July 2004 when monitoring was terminated. The locations range in distance from 25 feet to 5 miles from the site.

All dosimeters are changed by BRP staff.

In 2003 the average annual exposure for the 15 BRP TLD locations was 34.8 milliroentgen. This is comparable to the annual averages observed in other monitoring programs in Pennsylvania during 2003. (See Appendices 2003 7.A and 2004 7.A)

QUEHANNA AIR SAMPLING

Four of the air particulate monitoring stations were in the immediate vicinity of the facility. A control sampler was located approximately 6.1 miles southeast at the Quehanna Boot Camp. The air samplers continuously collected air particulates. Filters were analyzed by SCIENTECH staff for gross alpha and beta activity until monitoring was terminated in July 2004. Air-monitoring data from samplers at the PermaGrain, Inc. facility is similar to analogous data from the control sampler at the Quehanna Boot Camp. (See Appendices 2003 7.B and 2004 7.B)

MOLYCORP FACILITY

During 2003 and 2004, environmental radiation levels were monitored around the Molycorp Facility in Washington, Pennsylvania, with TLDs. Air sampling was terminated in January 2003 when active work at the site was suspended and electrical power was shut off.

MOLYCORP THERMOLUMINESCENCE DOSIMETRY

BRP TLD program continued during 2003 and 2004 in the environs of the Molycorp facility. This program included 12 dosimeter stations, using Global/ICN service provided dosimeters that were exchanged quarterly. The locations range in distance from 0.1 to 5.0 miles from the site.

All dosimeters are exchanged by BRP staff.

In 2003 the average annual exposure for the 12 BRP TLD locations was 52.1 milliroentgen. In 2004 the average annual exposure was 45.7 milliroentgen. These results are comparable to levels measured at background locations. (See Appendices 2003 7.C and 2004 7.C)

WESTINGHOUSE ELECTRIC CORPORATION; WALTZ MILLS SITE

Westinghouse Electric Corporation's (WELCO) Waltz Mills site is located in Westmoreland County approximately 30 miles southeast of Pittsburgh. The site is about three miles west of New Stanton between the towns of Madison and Yukon. The site is 850 acres in size. About 85 acres of the site were developed and utilized. The site continued to undergo cleanup in 2003 and 2004. Most of the radiological contamination can be attributed to the fuel failure that occurred in the test reactor in 1960.

The two air samplers (a second air sampler was added in 2002) continuously collect air particulates. Filters are collected weekly and composited each quarter and analyzed for cesium-137, thorium-228, 230, 232, plutonium-238, 239 and uranium-234, 235 and 238. Results indicate work at the facility was not responsible for increasing exposure to the public. (See Appendices 2003 7.E and 2004 7.E)

References

ICRP, Principles of Monitoring for the Radiation Protection of the Population. ICRP-43. 1984.

Kathren, Ronald L., Radioactivity in the Environment. Harwood Academic Publishers, New York, 1984.

U.S. EPA, Environmental Radioactivity Surveillance Guide. ORP/SID 72-2. USEPA. June 1972.

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PENNSYLVANIA BUREAU OF RADIATION PROTECTION

ENVIRONMENTAL SURVEILLANCE SECTION

Appendix A

2003

Source-Oriented Monitoring

1.A

PENNSYLVANIA MILK NETWORK DATA

Concentration (pCi/L)

Station	Sampling Date	I-131	Cs-134	Cs-137	Ba-140	K-40	Sr-90
Harrisburg	1/09/03	< 2	< 1	< 2	< 4	1390 +/- 37	< 3
1	2/05/03	< 2	< 1	< 2	< 5	1420 +/- 39	< 3
	3/05/03	< 2	< 2	< 2	< 7	1390 +/- 58	*
	4/09/03	< 2	< 2	< 2	< 6	1370 +/- 57	< 2
	5/08/03	< 2	< 2	< 2	< 6	1410 +/- 51	< 3
	6/04/03	< 2	< 2	< 2	< 5	1420 +/- 41	< 2
	7/09/03	< 2	< 1	< 2	< 4	1370 +/- 36	< 3
	8/06/03	< 2	< 2	< 2	< 5	1480 +/- 42	< 2
	9/10/03	< 2	< 1	< 2	< 4	1450 +/- 37	< 2
	10/08/03	< 2	< 2	< 2	< 5	1360 +/- 40	< 2
	11/05/03	< 2	< 2	< 2	< 7	1380 +/- 58	< 2
	12/17/03	< 2	< 2	< 2	< 6	1300 +/- 51	< 2

* No result available

Station	Sampling Date	I-131	Cs-134	Cs-137	Ba-140	K-40	Sr-90
Pittsburgh	1/08/03	< 2	< 2	< 2	< 5	1400 +/- 41	< 3
2	2/03/03	< 2	< 1	< 2	< 5	1390 +/- 35	< 3
	3/06/03	< 2	< 1	< 2	< 5	1380 +/- 36	< 2
	4/08/03	< 2	< 1	< 2	< 5	1440 +/- 36	< 2
	5/05/03	< 4	< 2	< 2	< 10	1370 +/- 57	< 2
	6/02/03	< 3	< 2	< 2	< 7	1440 +/- 42	< 2
	7/07/03	< 2	< 2	< 2	< 6	1350 +/- 51	< 3
	8/05/03	< 4	< 2	< 2	< 9	1270 +/- 57	< 2
	9/09/03	< 3	< 3	< 3	< 9	1310 +/- 61	< 2
	10/06/03	< 4	< 2	< 2	< 10	1310 +/- 51	2 +/- 1
	11/04/03	< 2	< 2	< 2	< 7	1400 +/- 58	< 2
	12/10/03	< 3	< 2	< 2	< 8	1330 +/- 50	2 +/- 1

Station	Sampling Date	I-131	Cs-134	Cs-137	Ba-140	K-40	Sr-90
Erie	1/06/03	< 3	< 2	< 3	< 8	1420 +/- 60	< 3
5	2/10/03	< 2	< 2	< 2	< 5	1430 +/- 39	< 2
	3/03/03	< 2	< 1	< 2	< 5	1440 +/- 36	< 3
	4/07/03	< 2	< 1	< 2	< 5	1420 +/- 36	2 +/- 1
	5/05/03	< 2	< 2	< 2	< 5	1420 +/- 40	< 2
	6/02/03	< 2	< 1	< 2	< 4	1420 +/- 36	< 2
	7/08/03	< 2	< 2	< 3	< 7	1370 +/- 57	< 2
	8/04/03	< 2	< 1	< 2	< 4	1400 +/- 36	2 +/- 1
	9/08/03	< 2	< 1	< 2	< 4	1400 +/- 35	< 2
	10/06/03	< 2	< 1	< 2	< 4	1400 +/- 36	2 +/- 1
	11/03/03	< 2	< 2	< 2	< 5	1440 +/- 42	< 2
	12/09/03	< 2	< 1	< 2	< 4	1410 +/- 36	2 +/- 1

Station	Sampling Date	I-131	Cs-134	Cs-137	Ba-140	K-40	Sr-90
Philadelphia	1/09/03	< 2	< 2	< 2	< 5	1390 +/- 42	< 2
9	2/06/03	< 2	< 2	< 2	< 6	1400 +/- 53	< 3
	3/06/03	< 2	< 2	< 2	< 6	1400 +/- 51	< 4
	4/10/03	< 2	< 2	< 2	< 6	1390 +/- 53	< 2
	5/08/03	< 3	< 2	< 3	< 8	1360 +/- 63	< 2
	6/05/03	< 2	< 2	< 2	< 6	1320 +/- 52	< 2
	7/10/03	< 2	< 2	< 2	< 7	1380 +/- 58	< 2
	8/07/03	< 2	< 2	< 2	< 6	1470 +/- 41	< 2
	9/11/03	< 2	< 2	< 2	< 6	1450 +/- 42	< 2
	10/09/03	< 2	< 1	< 2	< 4	1410 +/- 36	< 2
	11/06/03	< 2	< 1	< 2	< 4	1410 +/- 36	< 2
	12/11/03	< 2	< 2	< 2	< 7	1360 +/- 56	< 3

1.B.1

PENNSYLVANIA WATER QUALITY NETWORK DATA

Station Number	Location	City	Collection Date	Concentration (pCi/L) Alpha	Beta	Tritium
110	Schuykill River	Philadelphia	01/16/03	< 2	2 +/- 1	< 160
			03/13/03	< 2	4 +/- 1	< 180
			05/22/03	< 2	4 +/- 1	< 140
			07/15/03	1 +/- 1	4 +/- 1	< 180
			09/03/03	< 2	4 +/- 1	< 170
			10/06/03	< 1	3 +/- 1	< 180
			12/10/03	< 1	3 +/- 1	< 200
111	Schuylkill River	Pottstown	01/15/03	< 2	3 +/- 1	< 160
			03/31/03	< 1	3 +/- 1	< 180
			05/12/03	< 2	3 +/- 1	< 170
			07/01/03	< 2	2 +/- 1	< 160
			09/09/03	< 2	3 +/- 1	< 190
			10/02/03	< 1	3 +/- 1	< 180
			12/02/03	< 1	2 +/- 1	< 180
182	Delaware River	Marcus Hook	03/25/03	1 +/- 1	3 +/- 1	< 180
			05/21/03	< 1	3 +/- 1	< 140
			07/22/03	< 2	3 +/- 1	< 190
			09/16/03	1 +/- 1	3 +/- 1	< 180
			11/18/03	< 1	5 +/- 1	< 180
			12/16/03	< 1	3 +/- 1	< 180
201	Susquehanna	Marietta	01/30/03	< 1	2 +/- 1	< 170
			03/26/03	< 2	4 +/- 1	< 180
			05/21/03	< 2	2 +/- 1	< 140
			07/15/03	< 2	2 +/- 1	< 180
			09/30/03	1 +/- 1	5 +/- 1	< 180
			10/27/03	< 1	2 +/- 1	< 190
			12/16/03	2 +/- 1	3 +/- 1	< 180
211	Swatara Creek	Middletown	01/21/03	< 2	3 +/- 1	< 170
			03/17/03	< 2	3 +/- 1	< 180
			05/07/03	< 2	3 +/- 1	< 170
			07/10/03	< 2	4 +/- 1	< 160
			09/03/03	< 2	3 +/- 1	< 170
			10/08/03	< 2	3 +/- 1	< 180
			12/17/03	< 1	2 +/- 1	< 180

PENNSYLVANIA WATER QUALITY NETWORK DATA

Station Number	Location	City	Collection Date	Concentration (pCi/L) Alpha	Beta	Tritium
301	Susquehanna River	Danville	01/13/03	< 1	< 2	< 160
			03/18/03	< 2	6 +/- 1	< 180
			05/20/03	< 1	2 +/- 1	< 160
			07/16/03	< 2	2 +/- 1	< 180
			09/23/03	voided		
			10/21/03	< 2	1 +/- 1	< 180
302	Luzerne	Newport	01/21/03	< 2	< 2	< 160
			03/18/03	5 +/- 2	8 +/- 2	< 180
			05/28/03	< 1	2 +/- 1	< 160
			07/29/03	< 2	3 +/- 1	< 190
			09/17/03	< 1	2 +/- 1	< 200
			10/22/03	< 1	2 +/- 1	< 180
			12/03/03	1 +/- 1	2 +/- 1	< 190
601	Lake Erie	Millcreek	01/13/03	1 +/- 1	3 +/- 1	< 160
			03/17/03	< 2	2 +/- 1	< 180
			05/19/03	< 2	2 +/- 1	< 140
			07/01/03	< 2	2 +/- 1	< 160
			09/16/03	1 +/- 1	3 +/- 1	< 200
			10/06/03	< 1	2 +/- 1	< 180
			12/16/03	1 +/- 1	4 +/- 1	< 200
643	Conneaut Creek	Conneaut Twp	03/17/03	< 2	4 +/- 1	< 180
			06/04/03	< 1	3 +/- 1	< 150
			07/30/03	< 2	4 +/- 1	< 180
			09/24/03	< 2	6 +/- 2	< 200
			10/22/03	< 2	3 +/- 1	< 180
			12/16/03	< 1	2 +/- 1	< 180
901	Ohio River	Rochester	01/08/03	< 2	2 +/- 1	< 160
			03/05/03	1 +/- 1	4 +/- 1	< 170
			05/19/03	< 1	3 +/- 1	< 140
			07/07/03	< 2	3 +/- 1	< 190
			09/04/03	2 +/- 1	6 +/- 1	< 190
			10/01/03	< 1	3 +/- 1	< 180
			12/01/03	< 1	4 +/- 1	< 180
902	Sewickly Boro	Allegheny	03/27/03	< 1	3 +/- 1	< 180
			05/21/03	< 1	3 +/- 1	< 140
			07/23/03	2 +/- 1	4 +/- 1	< 190
			10/28/03	< 2	1 +/- 1	< 190
			12/22/03	< 2	1 +/- 1	< 180

1.C

PHILADELPHIA DRINKING WATER

Sample Period Ending	Baxter			Queen Lane			Belmont		
	Alpha	Beta	Tritium	Alpha	Beta	Tritium	Alpha	Beta	Tritium
1/31/03	< 2	< 2	< 170	< 2	3 +/- 1	< 180	< 2	3 +/- 1	< 170
2/28/03	< 2	2 +/- 1	< 170	< 3	3 +/- 2	< 170	< 2	4 +/- 1	< 170
3/31/03	< 2	2 +/- 1	< 180	< 3	3 +/- 1	< 180	< 2	3 +/- 1	< 180
4/30/03	< 1	2 +/- 1	< 170	< 2	3 +/- 1	< 170	< 2	3 +/- 1	< 170
5/30/03	< 2	2 +/- 1	< 180	< 3	< 3	< 180	< 2	4 +/- 1	< 180
6/30/03	< 2	2 +/- 1	< 180	< 2	4 +/- 1	< 200	< 2	< 2	< 200
7/31/03	< 2	2 +/- 1	< 180	< 2	2 +/- 1	< 180	< 2	3 +/- 1	< 180
8/29/03	< 2	2 +/- 1	< 170	< 2	2 +/- 1	< 170	< 2	3 +/- 1	< 170
9/30/03	< 1	2 +/- 1	< 180	< 2	5 +/- 1	< 180	< 2	4 +/- 1	< 180
10/31/03	< 1	2 +/- 1	< 190	< 2	4 +/- 1	< 190	< 2	3 +/- 1	< 190
11/28/03	< 1	2 +/- 1	< 180	< 2	3 +/- 1	< 180	< 2	3 +/- 1	< 180
12/31/03	< 1	1 +/- 1	< 180	< 2	< 2	< 180	< 2	3 +/- 1	< 180

1.D

PRECIPITATION MONITORING DATA

	Concentration (pCi/L)			Deposition (nCi/m2)	
Collection Period Ending	Alpha	Beta	Tritium	Alpha	Beta
01/06/03	3 +/- 1	6 +/- 1	< 140	0.08 +/- 0.03	0.15 +/- 0.03
02/04/03	3 +/- 1	9 +/- 1	< 170	0.06 +/- 0.02	0.17 +/- 0.02
02/07/03	3 +/- 1	6 +/- 1	< 170	0.03 +/- 0.01	0.06 +/- 0.01
02/18/03	1 +/- 1	4 +/- 1	< 180	0.06 +/- 0.06	0.23 +/- 0.06
02/24/03	1 +/- 1	3 +/- 1	< 180	0.03 +/- 0.03	0.09 +/- 0.03
03/03/03	1 +/- 1	7 +/- 1	< 180	0.02 +/- 0.02	0.12 +/- 0.02
03/06/03	1 +/- 1	6 +/- 1	< 170	0.02 +/- 0.02	0.10 +/- 0.02
03/20/03	2 +/- 1	8 +/- 1	< 180	0.06 +/- 0.03	0.23 +/- 0.03
03/21/03	< 2	< 3	< 180	< 0.01	< 0.01
03/27/03	3 +/- 1	6 +/- 1	< 180	0.03 +/- 0.01	0.05 +/- 0.01
03/31/03	1 +/- 1	4 +/- 1	< 180	0.02 +/- 0.02	0.07 +/- 0.02
04/08/03	2 +/- 1	8 +/- 1	< 180	0.05 +/- 0.02	0.19 +/- 0.02
04/14/03	1 +/- 1	4 +/- 1	< 180	0.03 +/- 0.03	0.11 +/- 0.03
04/23/03	3 +/- 1	9 +/- 1	< 180	0.05 +/- 0.02	0.15 +/- 0.02
04/28/03	1 +/- 1	4 +/- 1	< 180	0.01 +/- 0.01	0.06 +/- 0.01
05/02/03	8 +/- 1	10 +/- 1	< 170	0.11 +/- 0.01	0.14 +/- 0.01
05/08/03	4 +/- 1	8 +/- 1	< 170	0.06 +/- 0.02	0.12 +/- 0.02
05/12/03	3 +/- 1	8 +/- 1	< 170	0.04 +/- 0.01	0.11 +/- 0.01
05/16/03	3 +/- 1	5 +/- 1	< 170	0.04 +/- 0.01	0.07 +/- 0.01
05/19/03	< 1	3 +/- 1	< 170	< 0.01	0.03 +/- 0.01
05/27/03	< 1	2 +/- 1	< 180	< 0.04	0.08 +/- 0.04
05/28/03	1 +/- 1	4 +/- 1	< 180	0.01 +/- 0.01	0.05 +/- 0.01
06/02/03	2 +/- 1	4 +/- 1	< 210	0.03 +/- 0.02	0.07 +/- 0.02
06/04/03	1 +/- 1	3 +/- 1	< 160	0.03 +/- 0.03	0.09 +/- 0.03
06/09/03	1 +/- 1	3 +/- 1	< 180	0.06 +/- 0.06	0.18 +/- 0.06
06/13/03	1 +/- 1	3 +/- 1	< 190	0.01 +/- 0.01	0.03 +/- 0.01
06/16/03	1 +/- 1	2 +/- 1	< 190	0.03 +/- 0.03	0.07 +/- 0.03
06/19/03	2 +/- 1	11 +/- 1	< 180	0.02 +/- 0.01	0.10 +/- 0.01
06/23/03	1 +/- 1	4 +/- 1	< 200	0.05 +/- 0.05	0.21 +/- 0.05
07/14/03	4 +/- 1	9 +/- 1	< 190	0.05 +/- 0.01	0.12 +/- 0.01
07/22/03	2 +/- 1	7 +/- 1	< 190	0.07 +/- 0.03	0.24 +/- 0.03
07/23/03	2 +/- 1	7 +/- 1	< 190	0.04 +/- 0.02	0.13 +/- 0.02
07/24/03	< 1	2 +/- 1	< 190	< 0.06	0.12 +/- 0.06
08/04/03	1 +/- 1	5 +/- 1	< 180	0.02 +/- 0.02	0.11 +/- 0.02
08/06/03	1 +/- 1	6 +/- 1	< 190	0.02 +/- 0.02	0.12 +/- 0.02
08/11/03	< 1	4 +/- 1	< 190	< 0.07	0.30 +/- 0.07
08/18/03	< 1	4 +/- 1	< 190	< 0.04	0.17 +/- 0.04
08/27/03	3 +/- 1	10 +/- 1	< 190	0.04 +/- 0.01	0.14 +/- 0.01
09/02/03	1 +/- 1	3 +/- 1	< 190	0.02 +/- 0.02	0.06 +/- 0.02
09/04/03	1 +/- 1	6 +/- 1	< 170	0.01 +/- 0.01	0.07 +/- 0.01
09/16/03	2 +/- 1	7 +/- 1	< 190	0.05 +/- 0.03	0.18 +/- 0.03
09/19/03	1 +/- 1	2 +/- 1	< 200	0.03 +/- 0.03	0.06 +/- 0.03
09/23/03	1 +/- 1	< 2	< 200	0.06 +/- 0.06	< 0.12
09/29/03	1 +/- 1	6 +/- 1	< 200	0.01 +/- 0.01	0.07 +/- 0.01
10/15/03	1 +/- 1	4 +/- 1	< 180	0.04 +/- 0.04	0.17 +/- 0.04

1.D

PRECIPITATION MONITORING DATA

	Concentration (pCi/L)			Deposition (nCi/m2)	
Collection Period Ending	**Alpha**	**Beta**	**Tritium**	**Alpha**	**Beta**
10/20/03	1 +/- 1	8 +/- 1	< 180	0.01 +/- 0.01	0.11 +/- 0.01
10/27/03	1 +/- 1	2 +/- 1	< 180	0.03 +/- 0.03	0.06 +/- 0.03
10/29/03	< 1	2 +/- 1	< 190	< 0.03	0.05 +/- 0.03
11/07/03	1 +/- 1	2 +/- 1	< 190	0.01 +/- 0.01	0.02 +/- 0.01
11/12/03	1 +/- 1	4 +/- 1	< 190	0.01 +/- 0.01	0.05 +/- 0.01
11/19/03	1 +/- 1	5 +/- 1	< 180	0.02 +/- 0.02	0.09 +/- 0.02
11/20/03	1 +/- 1	1 +/- 1	< 180	0.02 +/- 0.02	0.02 +/- 0.02
11/25/03	2 +/- 1	7 +/- 1	< 180	0.02 +/- 0.01	0.07 +/- 0.01
12/01/03	1 +/- 1	3 +/- 1	< 180	0.01 +/- 0.01	0.02 +/- 0.01
12/08/03	2 +/- 1	5 +/- 1	< 190	0.05 +/- 0.03	0.13 +/- 0.03
12/11/03	1 +/- 1	4 +/- 1	< 200	0.04 +/- 0.04	0.17 +/- 0.04
12/15/03	2 +/- 1	6 +/- 1	< 200	0.06 +/- 0.03	0.17 +/- 0.03
12/26/03	3 +/- 1	8 +/- 1	< 180	0.02 +/- 0.01	0.06 +/- 0.01

2.A

BEAVER VALLEY POWER STATION
QUARTERLY TLD INTERCOMPARISON

(mR/std. mo.)

Station Code	Location	Collection Period	Proxtronics Results	ICN Results
3B1	Shippingport	1/8/03 - 4/10/03	2.8 +/- 0.3	3.1 +/- 0.2
		4/10/03 - 7/7/03	4.7 +/- 1.2	3.5 +/- 0.6
		7/7/03 - 10/2/03	4.6 +/- 0.4	3.5 +/- 0.5
		10/2/03 - 1/8/04	4.5 +/- 0.7	2.6 +/- 0.5
3C1	Industry	1/8/03 - 4/10/03	2.3 +/- 0.1	2.4 +/- 0.4
		4/10/03 - 7/7/03	3.8 +/- 0.3	3.0 +/- 0.3
		7/7/03 - 10/2/03	5.2 +/- 0.4	3.0 +/- 0.0
		10/2/03 - 1/8/04	3.7 +/- 0.6	3.8 +/- 0.8
5C1	Mt. Pleasant Church	1/8/03 - 4/10/03	2.7 +/- 0.4	2.8 +/- 0.2
		4/10/03 - 7/7/03	4.5 +/- 0.8	3.5 +/- 0.5
		7/7/03 - 10/2/03	5.0 +/- 0.9	3.8 +/- 0.0
		10/2/03 - 1/8/04	6.2 +/- 0.1	3.0 +/- 0.2
11B1	Meyer Farm	1/8/03 - 4/10/03	2.8 +/- 0.1	2.9 +/- 0.2
		4/10/03 - 7/7/03	4.1 +/- 0.2	3.4 +/- 0.1
		7/7/03 - 10/2/03	4.4 +/- 0.6	3.4 +/- 0.3
		10/2/03 - 1/8/04	4.1 +/- 0.3	3.1 +/- 0.3
		Annual Average:	49.1 +/- 3.0	38.1 +/- 2.1

2.B

BEAVER VALLEY POWER STATION
BRP THERMOLUMINESCENCE DOSIMETRY (TLD) DATA
(mR/std. mo.)

	Location	ICN* 1/8/03 to 4/10/03	BRP** 1/8/03 to 4/10/03	ICN* 4/10/03 to 7/7/03	ICN* 7/7/03 to 10/02/03	ICN* 10/2/03 to 1/8/04	Annual Dose
01D1	Dever Residence	2.9 +/- 0.3	5.9 +/- 0.1	3.59 +/- 0.08	3.6 +/- 0.5	3.0 +/- 0.2	39.2 +/- 1.9
03B1	Shippingport	3.1 +/- 0.2	5.7 +/- 0.4	3.49 +/- 0.59	3.5 +/- 0.5	2.6 +/- 0.5	38 +/- 2.8
03C1	Industry	2.4 +/- 0.4	5.1 +/- 0.8	2.98 +/- 0.25	3.0 +/- 0.0	3.8 +/- 0.8	36.5 +/- 2.8
03D1	Ohioview	2.4 +/- 0.2	5.5 +/- 0.7	3.25 +/- 0.22	3.3 +/- 0.1	2.8 +/- 0.3	35.3 +/- 2.3
03J1	Beaver	3.0 +/- 0.3	6.3 +/- 0.6	3.39 +/- 0.25	4.1 +/- 0.4	3.4 +/- 0.2	41.5 +/- 2.4
04A1	Ferry Hill Substation	3.1 +/- 0.3	5.5 +/- 0.5	3.44 +/- 0.26	3.8 +/- 0.1	4.1 +/- 0.8	43.3 +/- 1.9
04C1	Potter Twp. School	2.2 +/- 0.3	5.2 +/- 0.2	3.45 +/- 0.29	2.6 +/- 0.1	3.2 +/- 0.1	34.4 +/- 1.4
04K1	Monaca	2.3 +/- 0.2	4.7 +/- 0.5	2.26 +/- 0.01	2.4 +/- 0.3	2.4 +/- 0.6	28.3 +/- 1.9
05C1	Mt. Pleasant Church	2.8 +/- 0.2	Missing	3.48 +/- 0.53	3.8 +/- 0.0	3.0 +/- 0.2	39.2 +/- 1.7
05J1	Aliquippa	3.5 +/- 0.0	6.2 +/- 0.3	3.54 +/- 0.50	2.8 +/- 0.2	3.4 +/- 0.2	39.6 +/- 1.9
06B1	Kennedy's Corner	2.7 +/- 0.1	6.0 +/- 0.6	3.83 +/- 0.35	3.4 +/- 0.2	3.6 +/- 0.4	40.5 +/- 2.2
06D1	Raccoon Twp. School	-2.4 +/- 0.1	5.4 +/- 0.8	3.01 +/- 0.13	3.4 +/- 0.4	2.7 +/- 0.5	20 +/- 2.7
06F1	Green Garden Road	2.5 +/- 0.1	4.6 +/- 0.3	2.55 +/- 0.36	3.0 +/- 0.2	2.6 +/- 0.6	31.8 +/- 1.5
06N1	Pittsburgh	3.0 +/- 0.1	5.7 +/- 0.5	3.76 +/- 0.22	3.4 +/- 0.4	2.7 +/- 0.5	38.6 +/- 2
07C1	Raccoon Twp. Building	2.8 +/- 0.1	5.8 +/- 0.2	3.71 +/- 0.10	3.4 +/- 0.4	3.6 +/- 0.5	40.7 +/- 1.5
07G1	Brunton Farm	3.0 +/- 0.4	5.2 +/- 0.3	3.82 +/- 0.49	2.9 +/- 0.3	3.3 +/- 0.1	38.9 +/- 2.2
08C1	McCleary & Shivler Roads	3.2 +/- 0.3	5.0 +/- 0.4	3.23 +/- 0.24	3.1 +/- 0.3	3.0 +/- 0.2	37.6 +/- 2
08E1	Raccoon Volunteer Fire Dept.	2.4 +/- 0.3	4.9 +/- 0.3	3.18 +/- 0.76	3.0 +/- 0.2	3.1 +/- 0.1	34.8 +/- 2.6
09D1	Mill Creek U.P. Church	2.1 +/- 0.3	5.1 +/- 0.4	4.18 +/- 0.37	2.7 +/- 0.3	3.0 +/- 0.1	36 +/- 2
10C1	McCleary Road	2.2 +/- 0.4	5.5 +/- 0.7	3.74 +/- 0.30	3.3 +/- 0.3	2.8 +/- 0.4	36.3 +/- 2.8
10E1	Mill Creek Road	2.8 +/- 0.2	5.1 +/- 0.4	3.56 +/- 0.25	3.5 +/- 0.2	3.5 +/- 0.3	40.1 +/- 1.7
11B1	Meyer Farm	2.9 +/- 0.2	5.6 +/- 0.2	3.40 +/- 0.14	3.4 +/- 0.3	3.1 +/- 0.3	38.4 +/- 1.4
11J1	Hancock Co. Parks Complex	4.3 +/- 0.2	6.5 +/- 0.8	4.01 +/- 0.39	4.4 +/- 0.2	3.9 +/- 0.6	49.7 +/- 2.8
12C1	Hookstown	2.5 +/- 0.1	5.4 +/- 0.3	3.81 +/- 0.40	3.1 +/- 0.3	2.8 +/- 0.3	36.8 +/- 1.7
13C1	Haney Farm	5.5 +/- 3.0	6.0 +/- 0.2	4.10 +/- 0.68	3.3 +/- 0.4	3.3 +/- 0.2	48.7 +/- 9.4
13F1	East Liverpool, OH	2.9 +/- 0.1	5.2 +/- 0.3	2.77 +/- 0.15	3.5 +/- 0.3	3.3 +/- 0.1	37.2 +/- 1.4
14D1	Georgetown	2.4 +/- 0.2	5.1 +/- 0.4	3.05 +/- 0.24	2.7 +/- 0.4	2.7 +/- 0.4	32.4 +/- 2
15A1	Midland Substation	3.3 +/- 0.2	6.1 +/- 0.5	3.95 +/- 0.29	3.9 +/- 0.0	3.3 +/- 0.1	43.3 +/- 1.8
15B1	Presentation Church	5.2 +/- 0.3	8.0 +/- 0.5	5.08 +/- 0.11	5.4 +/- 0.5	4.6 +/- 1.3	60.8 +/- 2.3
16B1	Sunset Hills	2.5 +/- 0.2	5.7 +/- 0.1	3.86 +/- 0.07	3.0 +/- 0.6	3.5 +/- 0.3	38.3 +/- 1.9

*Control corrected-net exposure.

**Not corrected for control-gross exposure.

2.C.1
BEAVER VALLEY AIR SAMPLING DATA
INDUSTRY (3C2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha			Particulates (x 0.01 pCi/m^3) Beta			Iodine-131 (x 0.01 pCi/m^3)
12/30/02 - 01/07/03	0.1	+/-	0.1	1.5	+/-	0.1	< 0.4
01/07/03 - 01/14/03	0.1	+/-	0.1	1.6	+/-	0.1	< 0.5
01/14/03 - 01/21/03	0.1	+/-	0.1	1.9	+/-	0.1	< 0.4
01/21/03 - 01/29/03	0.1	+/-	0.1	1.1	+/-	0.1	< 0.3
01/29/03 - 02/04/03	0.1	+/-	0.1	1.6	+/-	0.1	< 0.5
02/04/03 - 02/11/03	0.1	+/-	0.1	1.5	+/-	0.1	< 0.4
02/11/03 - 02/19/03	0.1	+/-	0.1	0.9	+/-	0.1	< 0.4
02/19/03 - 02/25/03	0.1	+/-	0.1	1.7	+/-	0.1	< 0.3
02/25/03 - 03/04/03	0.1	+/-	0.1	1.4	+/-	0.1	< 0.3
03/04/03 - 03/11/03	0.1	+/-	0.1	2.3	+/-	0.1	< 0.3
03/11/03 - 03/18/03	0.1	+/-	0.1	2.1	+/-	0.1	< 0.4
03/18/03 - 03/25/03	0.1	+/-	0.1	1.5	+/-	0.1	< 0.3
03/25/03 - 04/02/03	0.1	+/-	0.1	1.4	+/-	0.1	< 0.3
04/02/03 - 04/08/03	0.1	+/-	0.1	1.0	+/-	0.1	< 0.6
04/08/03 - 04/15/03	0.1	+/-	0.1	1.2	+/-	0.1	< 0.3
04/15/03 - 04/22/02	0.1	+/-	0.1	1.4	+/-	0.1	< 0.4
04/22/03 - 04/30/03	0.1	+/-	0.1	1.4	+/-	0.1	< 0.3
04/30/03 - 05/06/03	0.1	+/-	0.1	1.3	+/-	0.1	< 0.5
05/06/03 - 05/13/03	0.1	+/-	0.1	1.2	+/-	0.1	< 0.5
05/13/03 - 05/20/03		<	0.1	0.8	+/-	0.1	< 0.4
05/20/03 - 05/27/03	0.1	+/-	0.1	0.9	+/-	0.1	< 0.4
05/27/03 - 06/03/03	0.1	+/-	0.1	1.0	+/-	0.1	< 0.4
06/03/03 - 06/10/03	0.1	+/-	0.1	1.1	+/-	0.1	< 0.4
06/10/03 - 06/17/03	0.1	+/-	0.1	1.4	+/-	0.1	< 0.3
06/17/03 - 06/24/03	0.1	+/-	0.1	0.9	+/-	0.1	< 0.3
06/24/03 - 07/02/03	0.1	+/-	0.1	1.8	+/-	0.1	< 0.2
07/02/03 - 07/08/03	0.1	+/-	0.1	1.8	+/-	0.1	< 0.4
07/08/03 - 07/15/03	0.1	+/-	0.1	1.1	+/-	0.1	< 0.4
07/15/03 - 07/23/03	0.1	+/-	0.1	1.3	+/-	0.1	< 0.4
07/23/03 - 07/29/03	0.1	+/-	0.1	1.4	+/-	0.1	< 0.3
07/29/03 - 08/06/03	0.1	+/-	0.1	1.4	+/-	0.1	< 0.3
08/06/03 - 08/12/03	0.1	+/-	0.1	1.4	+/-	0.1	< 0.5
08/12/03 - 08/19/03	0.1	+/-	0.1	1.8	+/-	0.1	< 0.4
08/19/03 - 08/26/03	0.1	+/-	0.1	2.2	+/-	0.1	< 0.4
08/26/03 - 09/02/03	0.1	+/-	0.1	1.4	+/-	0.1	< 0.4
09/02/03 - 09/09/03	0.1	+/-	0.1	1.3	+/-	0.1	< 0.5
09/09/03 - 09/16/03	0.1	+/-	0.1	1.9	+/-	0.1	< 0.5
09/16/03 - 09/23/03	0.1	+/-	0.1	1.7	+/-	0.1	< 0.4
09/23/03 - 09/30/03	0.1	+/-	0.1	1.6	+/-	0.1	< 0.3
09/30/03 - 10/07/03	0.1	+/-	0.1	1.2	+/-	0.1	< 0.3
10/07/03 - 10/14/03	0.2	+/-	0.1	2.6	+/-	0.1	< 0.4
10/14/03 - 10/21/03	0.1	+/-	0.1	1.9	+/-	0.1	< 0.4
10/21/03 - 10/29/03	0.1	+/-	0.1	1.6	+/-	0.1	< 0.3
10/29/03 - 11/04/03	0.1	+/-	0.1	2.7	+/-	0.1	< 0.4
11/04/03 - 11/12/03	0.1	+/-	0.1	2.1	+/-	0.1	< 0.4
11/12/03 - 11/18/03	0.1	+/-	0.1	1.5	+/-	0.1	< 0.4
11/18/03 - 11/24/03	0.1	+/-	0.1	1.7	+/-	0.1	< 0.4
11/24/03 - 12/02/03	0.1	+/-	0.1	1.8	+/-	0.1	< 0.5
12/02/03 - 12/09/03	0.1	+/-	0.1	1.3	+/-	0.1	< 0.3
12/09/03 - 12/15/03	0.2	+/-	0.1	1.7	+/-	0.1	< 0.5
12/15/03 - 12/22/03	0.1	+/-	0.1	1.8	+/-	0.1	< 0.2
12/22/03 - 12/29/03	0.1	+/-	0.1	1.7	+/-	0.1	< 0.2
12/23/02 - 12/30/02	0.1	+/-	0.1	2.0	+/-	0.1	< 0.4

2.C.2
BEAVER VALLEY AIR SAMPLING DATA
COOKS FERRY SUBSTATION (4A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Particulates (x 0.01 pCi/m^3) Beta	Iodine-131 (x 0.01 pCi/m^3)
12/30/02 - 01/07/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
01/07/03 - 01/14/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
01/14/03 - 01/21/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
01/21/03 - 01/29/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
01/29/03 - 02/04/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.4
02/04/03 - 02/11/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
02/11/03 - 02/19/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.5
02/19/03 - 02/25/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
02/25/03 - 03/04/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
03/04/03 - 03/11/03	0.1 +/- 0.1	2.3 +/- 0.1	< 0.3
03/11/03 - 03/18/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
03/18/03 - 03/25/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
03/25/03 - 04/02/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
04/02/03 - 04/08/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
04/08/03 - 04/15/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/15/03 - 04/22/02	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/22/03 - 04/30/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/30/03 - 05/06/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.6
05/06/03 - 05/13/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.6
05/13/03 - 05/20/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
05/20/03 - 05/27/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.5
05/27/03 - 06/03/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/03/03 - 06/10/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
06/10/03 - 06/17/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
06/17/03 - 06/24/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
06/24/03 - 07/02/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
07/02/03 - 07/08/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
07/08/03 - 07/15/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
07/15/03 - 07/23/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
07/23/03 - 07/29/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
07/29/03 - 08/06/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
08/06/03 - 08/12/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
08/12/03 - 08/19/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
08/19/03 - 08/26/03	0.1 +/- 0.1	2.2 +/- 0.1	< 0.4
08/26/03 - 09/02/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
09/02/03 - 09/09/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.9
09/09/03 - 09/16/03	*	*	*
09/16/03 - 09/23/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.5
09/23/03 - 09/30/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
09/30/03 - 10/07/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
10/07/03 - 10/14/03	0.1 +/- 0.1	2.4 +/- 0.1	< 0.5
10/14/03 - 10/21/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
10/21/03 - 10/29/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
10/29/03 - 11/04/03	0.1 +/- 0.1	2.4 +/- 0.1	< 0.4
11/04/03 - 11/12/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.4
11/12/03 - 11/18/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
11/18/03 - 11/24/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
11/24/03 - 12/02/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
12/02/03 - 12/09/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
12/09/03 - 12/15/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
12/15/03 - 12/22/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
12/22/03 - 12/29/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3

* no sample available

2.C.3
BEAVER VALLEY AIR SAMPLING DATA
MEYER FARM (11B2)

Collection Period	Iodine-131 (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/30/02 - 01/07/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
01/07/03 - 01/14/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
01/14/03 - 01/21/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
01/21/03 - 01/29/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
01/29/03 - 02/04/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.5
02/04/03 - 02/11/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
02/11/03 - 02/19/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
02/19/03 - 02/25/03	< 0.1	1.7 +/- 0.1	< 0.4
02/25/03 - 03/04/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
03/04/03 - 03/11/03	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
03/11/03 - 03/18/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
03/18/03 - 03/25/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
03/25/03 - 04/02/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
04/02/03 - 04/08/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.5
04/08/03 - 04/15/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/15/03 - 04/22/02	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
04/22/03 - 04/30/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/30/03 - 05/06/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.6
05/06/03 - 05/13/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.6
05/13/03 - 05/20/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
05/20/03 - 05/27/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.5
05/27/03 - 06/03/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
06/03/03 - 06/10/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/10/03 - 06/17/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
06/17/03 - 06/24/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
06/24/03 - 07/02/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
07/02/03 - 07/08/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
07/08/03 - 07/15/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
07/15/03 - 07/23/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
07/23/03 - 07/29/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
07/29/03 - 08/06/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
08/06/03 - 08/12/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
08/12/03 - 08/19/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
08/19/03 - 08/26/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.5
08/26/03 - 09/02/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
09/02/03 - 09/09/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
09/09/03 - 09/16/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.5
09/16/03 - 09/23/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.5
09/23/03 - 09/30/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.6
09/30/03 - 10/07/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
10/07/03 - 10/14/03	0.1 +/- 0.1	2.6 +/- 0.1	< 0.5
10/14/03 - 10/21/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
10/21/03 - 10/29/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
10/29/03 - 11/04/03	0.1 +/- 0.1	2.7 +/- 0.1	< 0.5
11/04/03 - 11/12/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
11/12/03 - 11/18/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
11/18/03 - 11/24/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
11/24/03 - 12/02/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
12/02/03 - 12/09/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
12/09/03 - 12/15/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
12/15/03 - 12/22/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
12/22/03 - 12/29/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
12/23/02 - 12/30/02	0.1 +/- 0.1	1.9 +/- 0.1	< 0.2

2.C.4

BEAVER VALLEY AIR SAMPLING DATA
MIDLAND SUBSTATION (15A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha			Particulates (x 0.01 pCi/m^3) Beta			Iodine-131 (x 0.01 pCi/m^3)
12/30/02 - 01/07/03	0.1	+/-	0.1	1.4	+/-	0.1	< 0.3
01/07/03 - 01/14/03	0.1	+/-	0.1	1.4	+/-	0.1	< 0.3
01/14/03 - 01/21/03	0.1	+/-	0.1	1.8	+/-	0.1	< 0.3
01/21/03 - 01/29/03	0.1	+/-	0.1	1.3	+/-	0.1	< 0.6
01/29/03 - 02/04/03	0.1	+/-	0.1	1.7	+/-	0.1	< 0.4
02/04/03 - 02/11/03	0.1	+/-	0.1	1.5	+/-	0.1	< 0.5
02/11/03 - 02/19/03	0.1	+/-	0.1	1.0	+/-	0.1	< 0.5
02/19/03 - 02/25/03	0.1	+/-	0.1	1.6	+/-	0.1	< 0.4
02/25/03 - 03/04/03	0.1	+/-	0.1	1.5	+/-	0.1	< 0.3
03/04/03 - 03/11/03	0.1	+/-	0.1	2.1	+/-	0.1	< 0.3
03/11/03 - 03/18/03	0.1	+/-	0.1	2.0	+/-	0.1	< 0.3
03/18/03 - 03/25/03	0.1	+/-	0.1	1.3	+/-	0.1	< 0.2
03/25/03 - 04/02/03	0.1	+/-	0.1	1.2	+/-	0.1	< 0.2
04/02/03 - 04/08/03	0.1	+/-	0.1	1.1	+/-	0.1	< 0.7
04/08/03 - 04/15/03	0.1	+/-	0.1	1.2	+/-	0.1	< 0.5
04/15/03 - 04/22/02	0.1	+/-	0.1	1.2	+/-	0.1	< 0.4
04/22/03 - 04/30/03	0.1	+/-	0.1	1.3	+/-	0.1	< 0.3
04/30/03 - 05/06/03	0.1	+/-	0.1	1.2	+/-	0.1	< 0.7
05/06/03 - 05/13/03	0.1	+/-	0.1	1.1	+/-	0.1	< 0.5
05/13/03 - 05/20/03	0.1	+/-	0.1	0.8	+/-	0.1	< 0.4
05/20/03 - 05/27/03	0.1	+/-	0.1	1.0	+/-	0.1	< 0.4
05/27/03 - 06/03/03	0.1	+/-	0.1	1.0	+/-	0.1	< 0.4
06/03/03 - 06/10/03	0.1	+/-	0.1	1.1	+/-	0.1	< 0.7
06/10/03 - 06/17/03	0.1	+/-	0.1	1.3	+/-	0.1	< 0.4
06/17/03 - 06/24/03	0.1	+/-	0.1	0.9	+/-	0.1	< 0.3
06/24/03 - 07/02/03	0.1	+/-	0.1	1.7	+/-	0.1	< 0.2
07/02/03 - 07/08/03	0.1	+/-	0.1	1.7	+/-	0.1	< 0.4
07/08/03 - 07/15/03	0.1	+/-	0.1	1.1	+/-	0.1	< 0.5
07/15/03 - 07/23/03	0.1	+/-	0.1	1.3	+/-	0.1	< 0.6
07/23/03 - 07/29/03	0.1	+/-	0.1	1.2	+/-	0.1	< 0.3
07/29/03 - 08/06/03	0.1	+/-	0.1	1.4	+/-	0.1	< 0.2
08/06/03 - 08/12/03	0.1	+/-	0.1	1.3	+/-	0.1	< 0.6
08/12/03 - 08/19/03	0.1	+/-	0.1	1.8	+/-	0.1	< 0.3
08/19/03 - 08/26/03	0.1	+/-	0.1	2.2	+/-	0.1	< 0.4
08/26/03 - 09/02/03	0.1	+/-	0.1	1.4	+/-	0.1	< 0.4
09/02/03 - 09/09/03	0.1	+/-	0.1	1.3	+/-	0.1	< 0.4
09/09/03 - 09/16/03	0.1	+/-	0.1	1.9	+/-	0.1	< 0.7
09/16/03 - 09/23/03	0.1	+/-	0.1	1.8	+/-	0.1	< 0.4
09/23/03 - 09/30/03	0.1	+/-	0.1	1.6	+/-	0.1	< 0.5
09/30/03 - 10/07/03	0.1	+/-	0.1	1.1	+/-	0.1	< 0.6
10/07/03 - 10/14/03	0.1	+/-	0.1	2.6	+/-	0.1	< 0.3
10/14/03 - 10/21/03	0.1	+/-	0.1	1.6	+/-	0.1	< 0.6
10/21/03 - 10/29/03	0.1	+/-	0.1	1.5	+/-	0.1	< 0.3
10/29/03 - 11/04/03	0.1	+/-	0.1	2.8	+/-	0.1	< 0.4
11/04/03 - 11/12/03	0.1	+/-	0.1	2.1	+/-	0.1	< 0.5
11/12/03 - 11/18/03	0.1	+/-	0.1	1.6	+/-	0.1	< 0.4
11/18/03 - 11/24/03	0.1	+/-	0.1	1.7	+/-	0.1	< 0.6
11/24/03 - 12/02/03	0.1	+/-	0.1	1.8	+/-	0.1	< 0.5
12/02/03 - 12/09/03	0.1	+/-	0.1	1.2	+/-	0.1	< 0.3
12/09/03 - 12/15/03	0.2	+/-	0.1	1.6	+/-	0.1	< 0.6
12/15/03 - 12/22/03	0.1	+/-	0.1	1.9	+/-	0.1	< 0.2
12/22/03 - 12/29/03	0.1	+/-	0.1	1.7	+/-	0.1	< 0.3
12/23/02 - 12/30/02	0.1	+/-	0.1	1.8	+/-	0.1	< 0.4

2.D

BEAVER VALLEY AIR PARTICULATE COMPOSITES
(fCi/m3)

Station Number	Location	Collection Period	Cs-134	Cs-137
3C2	Industry	12/30/2002 - 4/2/2003	< 0.1	< 0.1
		4/2/2003 - 7/2/2003	< 0.1	< 0.1
		7/2/2003 - 9/30/2003	< 0.1	< 0.1
		9/30/2003 - 12/29/2003	< 0.1	< 0.1
4A2	Ferry Hill Substation	12/30/2002 - 4/2/2003	< 0.1	< 0.1
		4/2/2003 - 7/2/2003	< 0.1	< 0.1
		7/2/2003 - 9/30/2003	< 0.1	< 0.1
		9/30/2003 - 12/29/2003	< 0.1	< 0.1
11B2	Meyer Farm	12/30/2002 - 4/2/2003	< 0.1	< 0.1
		4/2/2003 - 7/2/2003	< 0.1	< 0.1
		7/2/2003 - 9/30/2003	< 0.1	< 0.1
		9/30/2003 - 12/29/2003	< 0.1	< 0.1
15A2	Midland Substation	12/30/2002 - 4/2/2003	< 0.1	< 0.2
		4/2/2003 - 7/2/2003	< 0.2	< 0.2
		7/2/2003 - 9/30/2003	< 0.1	< 0.1
		9/30/2003 - 12/29/2003	< 0.1	< 0.1

2.E.1

BEAVER VALLEY WATER SAMPLING DATA
J & L Steel, Midland (14B1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
2/04/03	2 +/- 1	<180	<1	<3	<1	<1	<2	< 2 / < 2	<3	<1	<1	<7
3/04/03	3 +/- 1	<170	<2	<4	<2	<2	<3	< 3 / < 2	<6	<2	<2	<13
4/01/03	2 +/- 1	<180	<1	<3	<2	<2	<3	< 2 / < 2	<3	<1	<2	<6
4/30/03	2 +/- 1	<170	<1	<2	<1	<1	<2	< 2 / < 1	<3	<1	<1	<7
6/03/03	3 +/- 1	<130	<2	<4	<2	<2	<4	< 3 / < 2	<4	<2	<2	<10
7/01/03	3 +/- 1	<180	<2	<5	<2	<3	<5	< 4 / < 3	<4	<2	<3	<11
7/29/03	3 +/- 1	<190	<2	<4	<2	<2	<3	< 3 / < 2	<5	<2	<2	<11
9/02/03	3 +/- 1	<190	<2	<4	<2	<2	<4	< 4 / < 3	<7	<2	<2	<15
9/30/03	3 +/- 1	<180	<1	<3	<2	<2	<3	< 2 / < 2	<3	<1	<1	<6
10/28/03	3 +/- 1	<190	<1	<3	<1	<1	<3	< # / < 2	<3	<1	<2	<6
12/02/03	3 +/- 1	<200	<1	<2	<1	<1	<2	< 2 / < 2	<3	<1	<1	<6
12/30/03	2 +/- 1	<180	<1	<3	<1	<2	<2	< 2 / < 2	<3	<1	<1	<6

ARCO POLYMER (4F1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/28/03	5 +/- 1	<170	<1	<2	<1	<1	<2	< 2 / < 2	<3	<1	<2	<6
2/25/03	4 +/- 1	<180	<1	<2	<2	<1	<2	< 2 / < 2	<3	<1	<1	<6
3/25/03	4 +/- 1	<180	<1	<3	<2	<1	<2	< 2 / < 2	<4	<1	<1	<8
4/30/03	3 +/- 1	<170	<2	<3	<2	<2	<3	< 3 / < 2	<5	<2	<2	<9
5/27/03	4 +/- 1	<180	<1	<3	<2	<2	<3	< 3 / < 2	<6	<2	<2	<11
6/24/03	3 +/- 1	<180	<2	<4	<2	<2	<4	< 3 / < 2	<6	<2	<2	<12
7/29/03	6 +/- 1	<190	<2	<5	<2	<2	<4	< 4 / < 3	<8	<3	3 +/- 2	<16
8/26/03	3 +/- 1	<190	<2	<4	<3	<3	<5	< 4 / < 3	<8	<2	<2	<15
9/30/03	3 +/- 1	<180	<1	<3	<2	<2	<2	< 2 / < 2	<3	<1	<2	<6
10/28/03	3 +/- 1	<190	<1	<3	<2	<1	<3	< 2 / < 2	<3	<2	<2	<6
11/25/03	4 +/- 1	<190	<2	<3	<2	<2	<3	< 3 / < 2	<5	<2	<2	<12
12/30/03	3 +/- 1	<180	<2	<3	<2	<2	<3	< 3 / < 2	<3	<1	<2	<6

2.E.2
EAST LIVERPOOL (14F1)
(pCi/l)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
2/04/03	3 +/- 1	< 180	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 7
3/04/03	5 +/- 1	< 180	< 2	< 5	< 2	< 3	< 4	< 4 / < 3	< 8	< 2	< 2	< 16
4/01/03	3 +/- 1	< 180	< 1	< 3	< 1	< 1	< 3	< 2 / < 2	< 2	< 1	< 1	< 6
4/29/03	3 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 4	< 1	< 1	< 8
6/03/03	4 +/- 1	< 180	< 2	< 4	< 2	< 2	< 3	< 3 / < 2	< 4	< 2	< 2	< 9
7/01/03	4 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 2	< 2	< 6
7/29/03	5 +/- 1	< 190	< 2	< 4	< 2	< 2	< 4	< 4 / < 3	< 7	< 2	< 2	< 14
9/02/03	4 +/- 1	< 190	< 2	< 3	< 2	< 2	< 4	< 3 / < 2	< 5	< 2	< 2	< 11
9/30/03	3 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 5	< 1	< 2	< 9
10/28/03	3 +/- 1	< 190	< 1	< 3	< 2	< 1	< 3	< 2 / < 2	< 3	< 1	< 2	< 7
12/02/03	4 +/- 1	< 200	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 8
12/30/03	3 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 1	< 2	< 7

2.F

BEAVER VALLEY MILK SAMPLING DATA
(pCi/L)

Station Number	Collection Date	I-131	Cs-134	Cs-137	Ba-140	K-40
11C1-18	1/14/03	< 2	< 2	< 2	< 5	1340 +/- 39
	2/11/03	< 2	< 1	< 2	< 5	1300 +/- 34
	3/10/03	< 3	< 2	< 2	< 7	1310 +/- 57
	4/21/03	< 2	< 2	< 2	< 5	1300 +/- 41
	5/20/03	< 2	< 2	< 2	< 6	1240 +/- 51
	6/16/03	< 6	< 2	< 2	< 11	1240 +/- 51
	7/14/03	< 2	< 2	< 2	< 6	1240 +/- 50
	8/11/03	< 2	< 1	< 2	< 4	1290 +/- 35
	9/08/03	< 3	< 2	< 2	< 7	1250 +/- 51
	10/20/03	< 3	< 2	< 2	< 8	1330 +/- 56
	11/10/03	< 3	< 2	< 2	< 8	1340 +/- 57
	12/15/03	< 2	< 2	2 +/- 1	< 7	1330 +/- 57
07G2-18	1/15/03	< 2	< 1	< 2	< 4	1340 +/- 36
	2/12/03	< 2	< 2	< 2	< 5	1330 +/- 41
	3/12/03	< 2	< 2	< 2	< 7	1290 +/- 55
	4/22/03	< 2	< 1	< 2	< 5	1390 +/- 36
	5/21/03	< 2	< 2	< 2	< 8	1320 +/- 58
	6/18/03	< 2	< 2	< 3	< 6	128 +/- 58
	7/16/03	< 2	< 2	< 2	< 7	1390 +/- 59
	8/12/03	< 2	< 2	< 2	< 6	1380 +/- 53
	9/10/03	< 2	< 2	< 2	< 7	1260 +/- 55
	10/21/03	< 2	< 2	< 3	< 7	1320 +/- 57
	11/12/03	< 2	< 2	< 3	< 7	1270 +/- 53
	12/15/03	< 2	< 2	< 2	< 7	1310 +/- 55

2.G

BEAVER VALLEY FISH, PRODUCE & SEDIMENT DATA
(pCi/kg)

	Fish*		Sediment**	Produce*	
				Georgetown	Shippingport
Isotope	**5/30/2003**	**11/18/2003**	**10/30/2003**	**8/26/2003**	**9/15/2003**
I-131	< 170	< 78	< 23	< 5	< 7
Mn-54	< 4	< 3	< 8	< 3	< 2
Fe-59	< 18	< 12	< 19	< 7	< 6
Co-58	< 7	< 4	176 +/- 12	< 3	< 2
Co-60	< 5	< 3	141 +/- 12	< 3	< 3
Zn-65	< 11	< 8	< 19	< 7	< 6
Zr-Nb-95	< 10/< 9	< 7/< 6	< 16/< 15	< 5/< 4	< 4/< 3
Cs-134	< 4	< 3	< 8	< 3	< 2
Cs-137	< 4	< 3	75 +/- 8	< 3	< 3
Ba-140	< 139	< 74	< 54	< 13	< 16

* Wet Weight
** Dry Weight

3.A

LIMERICK GENERATING STATION
QUARTERLY TLD INTERCOMPARISON
(mR/std. mo.)

Station Code		Collection Period	Proxtronics Results	ICN Results
2B1	Sanatoga	1/8/03 - 4/2/03	2.6 +/- 0.7	3.2 +/- 0.3
		4/2/03 - 7/1/03	4.3 +/- 0.8	3.6 +/- 0.2
		7/1/03 - 10/1/03	3.7 +/- 0.6	4.2 +/- 0.1
		10/1/03 - 1/7/04	5.1 +/- 1.1	3.2 +/- 0.5
6A1	Information Center	1/8/03 - 4/2/03	3.5 +/- 0.5	4.3 +/- 0.2
		4/2/03 - 7/1/03	6.0 +/- 0.4	6.2 +/- 0.6
		7/1/03 - 10/1/03	5.8 +/- 1.2	5.7 +/- 0.2
		10/1/03 - 1/7/04	7.2 +/- 0.5	4.6 +/- 1.6
8B1	Linfield	1/8/03 - 4/2/03	2.5 +/- 0.2	3.1 +/- 0.2
		4/2/03 - 7/1/03	3.8 +/- 0.7	3.4 +/- 0.2
		7/1/03 - 10/1/03	4.1 +/- 0.7	3.9 +/- 0.1
		10/1/03 - 1/7/04	3.8 +/- 0.8	3.4 +/- 0.6
14B1	Industrial Highway	1/8/03 - 4/2/03	2.9 +/- 0.2	3.4 +/- 0.1
		4/2/03 - 7/1/03	3.7 +/- 0.9	4.1 +/- 0.2
		7/1/03 - 10/1/03	4.7 +/- 0.8	5.4 +/- 0.3
		10/1/03 - 1/7/04	6.2 +/- 0.7	3.2 +/- 0.4
			52.5 +/- 2.5	48.6 +/- 2.7

3.B

LIMERICK GENERATING STATION
THERMOLUMINESCENCE DOSIMETRY (TLD) DATA
(mR/std. mo.)

	Location	ICN* 1/8/03 to 4/2/03	BRP** 1/8/03 to 4/2/03	ICN* 4/2/03 to 7/1/03	ICN* 7/1/03 to 10/1/03	ICN* 10/1/03 to 1/7/04	Annual Dose
01A1	Evergreen & Sanatoga Roads	4.2 +/- 0.4	5.3 +/- 0.4	4.4 +/- 0.2	6.0 +/- 0.1	3.8 +/- 1.0	55.2 +/- 1.8
02B1	Sanatoga	3.2 +/- 0.3	5.0 +/- 0.4	3.6 +/- 0.2	4.2 +/- 0.1	3.2 +/- 0.5	42.5 +/- 1.7
02E1	Camp Laughing Waters	3.8 +/- 0.3	4.9 +/- 0.4	4.7 +/- 0.1	4.6 +/- 0.1	3.7 +/- 0.9	50.1 +/- 1.6
03E1	Neiffer Road	2.0 +/- 0.2	3.8 +/- 0.2	3.0 +/- 0.3	5.4 +/- 0.3	2.8 +/- 0.1	39.6 +/- 1.6
04C1	Pottstown-Limerick Airport	3.7 +/- 0.2	5.2 +/- 0.4	4.3 +/- 0.3	4.2 +/- 0.1	3.3 +/- 0.5	46.8 +/- 1.7
04C2	Limerick School	3.0 +/- 0.4	5.6 +/- 1.0	4.3 +/- 0.3	3.7 +/- 0.1	3.4 +/- 0.6	43.2 +/- 3.4
04E1	Game Farm	3.7 +/- 0.4	5.3 +/- 0.2	4.0 +/- 0.2	4.9 +/- 0.4	3.9 +/- 1.1	49.7 +/- 1.9
04G1	Schwenksville	3.5 +/- 0.1	5.9 +/- 0.3	5.5 +/- 0.5	5.3 +/- 0.4	3.7 +/- 0.8	53.9 +/- 2.1
06A1	Information Center	4.3 +/- 0.2	6.8 +/- 0.3	6.2 +/- 0.6	5.7 +/- 0.2	4.6 +/- 1.6	62.4 +/- 2.1
06C1	Stanley Tools	3.6 +/- 0.2	5.2 +/- 0.6	4.7 +/- 0.6	4.6 +/- 0.1	3.6 +/- 0.8	49.5 +/- 2.7
06G1	Collegeville	3.1 +/- 0.2	5.9 +/- 0.4	4.3 +/- 0.2	3.6 +/- 0.2	3.7 +/- 0.8	44.2 +/- 1.6
07C1	King Road	1.8 +/- 0.2	3.9 +/- 0.9	2.9 +/- 0.2	3.7 +/- 0.1	2.1 +/- 0.6	31.7 +/- 2.8
07D1	Spring City	3.7 +/- 0.2	5.3 +/- 0.4	5.0 +/- 0.3	4.7 +/- 0.0	3.6 +/- 0.8	51.2 +/- 1.7
07E1	Royersford	2.5 +/- 0.1	4.6 +/- 0.4	3.5 +/- 0.4	3.0 +/- 0.1	3.0 +/- 0.3	36.1 +/- 1.7
07H1	Phoenixville	3.4 +/- 0.4	5.3 +/- 0.8	3.7 +/- 0.2	3.7 +/- 0.3	2.9 +/- 0.3	41.3 +/- 2.9
08B1	Linfield	3.1 +/- 0.2	5.0 +/- 0.1	3.4 +/- 0.2	3.9 +/- 0.1	3.4 +/- 0.6	41.2 +/- 1.0
08F1	Pikeland Substation	3.7 +/- 0.1	5.1 +/- 0.5	4.5 +/- 0.1	4.4 +/- 0.2	3.7 +/- 0.8	49.0 +/- 1.7
09B1	Parker Ford	3.2 +/- 0.2	5.1 +/- 0.4	4.8 +/- 0.2	3.7 +/- 0.3	3.3 +/- 0.5	45.0 +/- 1.8
09D1	Snowden Substation	2.8 +/- 0.2	4.9 +/- 0.7	3.8 +/- 0.1	4.0 +/- 0.2	3.4 +/- 0.5	42.0 +/- 2.3
10D1	Ellis Woods Road	2.7 +/- 0.1	4.9 +/- 0.4	4.1 +/- 0.4	4.2 +/- 0.2	3.1 +/- 0.3	42.5 +/- 1.8
11E1	Porters Mill Substation	2.9 +/- 0.1	4.4 +/- 0.2	4.2 +/- 0.1	4.6 +/- 0.3	2.8 +/- 0.1	43.5 +/- 1.2
12A1	Fricks Lock	2.8 +/- 0.5	4.7 +/- 0.5	4.3 +/- 0.1	3.4 +/- 0.1	3.3 +/- 0.5	41.6 +/- 2.1
12E1	Hoffecker Road & Keim Street	2.8 +/- 0.4	4.2 +/- 0.3	3.6 +/- 0.1	3.3 +/- 0.3	2.8 +/- 0.3	37.2 +/- 1.7
13C1	Kenilworth	3.1 +/- 0.1	5.2 +/- 0.4	4.1 +/- 0.2	3.8 +/- 0.1	3.8 +/- 0.9	44.4 +/- 1.4
14B1	Industrial Highway	3.4 +/- 0.1	5.3 +/- 0.7	4.1 +/- 0.2	5.4 +/- 0.3	3.2 +/- 0.4	48.1 +/- 2.4
14L1	Birdsboro	2.4 +/- 0.4	4.2 +/- 0.5	3.0 +/- 0.1	2.6 +/- 0.1	2.4 +/- 0.4	31.2 +/- 2.1
15D1	Pottstown	4.2 +/- 0.2	6.6 +/- 0.4	5.4 +/- 0.2	7.6 +/- 0.1	4.3 +/- 1.4	64.6 +/- 1.6
16B1	Pleasantview Road	3.5 +/- 0.3	5.3 +/- 0.1	4.4 +/- 0.3	4.1 +/- 0.4	3.3 +/- 0.5	45.8 +/- 1.7
16E1	Yarnall Road	3.4 +/- 0.1	5.0 +/- 0.8	4.9 +/- 0.4	4.1 +/- 0.2	3.4 +/- 0.7	47.6 +/- 2.8
16H1	Boyertown	2.5 +/- 0.0	4.7 +/- 0.7	3.8 +/- 0.3	3.4 +/- 0.1	2.5 +/- 0.2	36.8 +/- 2.3

3.C.1

LIMERICK AIR SAMPLING DATA

SANATOGA SUBSTATION (2B2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
01/02/03 - 01/09/03	0.1 +/- 0.1	1.2 +/- 0.1	<0.2
01/09/03 - 01/16/03	0.1 +/- 0.1	1.3 +/- 0.1	<0.3
01/16/03 - 01/23/03	0.1 +/- 0.1	2.0 +/- 0.1	<0.2
01/23/03 - 01/30/03	0.1 +/- 0.1	1.3 +/- 0.1	<0.3
01/30/03 - 02/06/03	0.1 +/- 0.1	1.5 +/- 0.1	<0.4
02/06/03 - 02/13/03	0.1 +/- 0.1	1.8 +/- 0.1	<0.3
02/13/03 - 02/21/03	0.1 +/- 0.1	1.2 +/- 0.1	<0.3
02/21/03 - 02/27/03	< 0.1	1.6 +/- 0.1	<0.3
02/27/03 - 03/06/03	0.1 +/- 0.1	1.9 +/- 0.1	<0.5
03/06/03 - 03/13/03	0.1 +/- 0.1	2.1 +/- 0.1	<0.3
03/13/03 - 03/20/03	0.1 +/- 0.1	1.6 +/- 0.1	<0.2
03/20/03 - 03/28/03	0.1 +/- 0.1	1.2 +/- 0.1	<0.3
03/28/03 - 04/03/03	0.1 +/- 0.1	1.3 +/- 0.1	<0.3
04/03/03 - 04/10/03	0.1 +/- 0.1	0.9 +/- 0.1	<0.2
04/10/03 - 04/17/03	0.1 +/- 0.1	1.7 +/- 0.1	<0.2
04/17/03 - 04/24/03	0.1 +/- 0.1	1.2 +/- 0.1	<0.3
04/24/03 - 05/01/03	0.1 +/- 0.1	1.3 +/- 0.1	<0.2
05/01/03 - 05/08/03	0.1 +/- 0.1	1.3 +/- 0.1	<0.2
05/08/03 - 05/15/03	0.1 +/- 0.1	0.8 +/- 0.1	<0.3
05/15/03 - 05/22/03	0.1 +/- 0.1	1.0 +/- 0.1	<0.5
05/22/03 - 05/29/03	0.1 +/- 0.1	0.5 +/- 0.1	<0.4
05/29/03 - 06/05/03	0.1 +/- 0.1	1.1 +/- 0.1	<0.3
06/05/03 - 06/12/03	0.1 +/- 0.1	1.1 +/- 0.1	<0.2
06/12/03 - 06/19/03	0.1 +/- 0.1	1.0 +/- 0.1	<0.2
06/19/03 - 06/26/03	0.1 +/- 0.1	1.6 +/- 0.1	<0.3
06/26/03 - 07/02/03	0.1 +/- 0.1	2.0 +/- 0.1	<0.3
07/02/03 - 07/10/03	0.1 +/- 0.1	1.7 +/- 0.1	<0.3
07/10/03 - 07/17/03	0.1 +/- 0.1	1.2 +/- 0.1	<0.2
07/17/03 - 07/24/03	0.1 +/- 0.1	1.5 +/- 0.1	<0.3
07/24/03 - 07/31/03	0.1 +/- 0.1	1.6 +/- 0.1	<0.3
07/31/03 - 08/07/03	0.1 +/- 0.1	1.1 +/- 0.1	<0.3
08/07/03 - 08/14/03	0.1 +/- 0.1	1.1 +/- 0.1	<0.2
08/14/03 - 08/21/03	0.1 +/- 0.1	1.8 +/- 0.1	<0.2
08/21/03 - 08/28/03	0.1 +/- 0.1	2.0 +/- 0.1	<0.2
08/28/03 - 09/04/03	0.1 +/- 0.1	1.3 +/- 0.1	<0.3
09/04/03 - 09/11/03	0.1 +/- 0.1	1.4 +/- 0.1	<0.2
09/11/03 - 09/18/03	0.1 +/- 0.1	1.2 +/- 0.1	<0.2
09/18/03 - 09/25/03	0.1 +/- 0.1	2.0 +/- 0.1	<0.2
09/25/03 - 10/02/03	0.1 +/- 0.1	1.8 +/- 0.1	<0.3
10/02/03 - 10/09/03	0.1 +/- 0.1	1.4 +/- 0.1	<0.2
10/09/03 - 10/16/03	0.1 +/- 0.1	3.0 +/- 0.1	<0.2
10/16/03 - 10/23/03	0.1 +/- 0.1	1.9 +/- 0.1	<0.3
10/23/03 - 10/30/03	0.1 +/- 0.1	1.2 +/- 0.1	<0.2
10/30/03 - 11/06/03	0.1 +/- 0.1	2.3 +/- 0.1	<0.2
11/06/03 - 11/14/03	0.1 +/- 0.1	1.6 +/- 0.1	<0.2
11/14/03 - 11/19/03	0.1 +/- 0.1	2.0 +/- 0.1	<0.3
11/19/03 - 11/25/03	0.1 +/- 0.1	2.3 +/- 0.1	<0.3
11/25/03 - 12/03/03	0.1 +/- 0.1	1.9 +/- 0.1	<0.2
12/03/03 - 12/11/03	0.1 +/- 0.1	1.1 +/- 0.1	<0.3
12/11/03 - 12/18/03	0.1 +/- 0.1	1.3 +/- 0.1	<0.2
12/18/03 - 12/24/03	0.1 +/- 0.1	1.6 +/- 0.1	<0.5
12/24/03 - 12/31/03	0.1 +/- 0.1	1.7 +/- 0.1	<0.3

3.C.2
LIMERICK AIR SAMPLING DATA
INFORMATION CENTER (6A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
01/02/03 - 01/09/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
01/09/03 - 01/16/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
01/16/03 - 01/23/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
01/23/03 - 01/30/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/30/03 - 02/06/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
02/06/03 - 02/13/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
02/13/03 - 02/21/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
02/21/03 - 02/27/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
02/27/03 - 03/06/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
03/06/03 - 03/13/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
03/13/03 - 03/20/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
03/20/03 - 03/28/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
03/28/03 - 04/03/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
04/03/03 - 04/10/03	0.1 +/- 0.1	0.6 +/- 0.1	< 0.3
04/10/03 - 04/17/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
04/17/03 - 04/24/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
04/24/03 - 05/01/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
05/01/03 - 05/08/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
05/08/03 - 05/15/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
05/15/03 - 05/22/03	< 0.1	0.8 +/- 0.1	< 0.4
05/22/03 - 05/29/03	< 0.1	0.4 +/- 0.1	< 0.3
05/29/03 - 06/05/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
06/05/03 - 06/12/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.5
06/12/03 - 06/19/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
06/19/03 - 06/26/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
06/26/03 - 07/02/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
07/02/03 - 07/10/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
07/10/03 - 07/17/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
07/17/03 - 07/24/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
07/24/03 - 07/31/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
07/31/03 - 08/07/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
08/07/03 - 08/14/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
08/14/03 - 08/21/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
08/21/03 - 08/28/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
08/28/03 - 09/04/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
09/04/03 - 09/11/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
09/11/03 - 09/18/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/18/03 - 09/25/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
09/25/03 - 10/02/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
10/02/03 - 10/09/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
10/09/03 - 10/16/03	0.1 +/- 0.1	2.7 +/- 0.1	< 0.2
10/16/03 - 10/23/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
10/23/03 - 10/30/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
10/30/03 - 11/06/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
11/06/03 - 11/14/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
11/14/03 - 11/19/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
11/19/03 - 11/25/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
11/25/03 - 12/03/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
12/03/03 - 12/11/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
12/11/03 - 12/18/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
12/18/03 - 12/24/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.6
12/24/03 - 12/31/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4

3.C.3
LIMERICK AIR SAMPLING DATA
INFORMATION CENTER (9B2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
01/02/03 - 01/09/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
01/09/03 - 01/16/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
01/16/03 - 01/23/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
01/23/03 - 01/30/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
01/30/03 - 02/06/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
02/06/03 - 02/13/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
02/13/03 - 02/21/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
02/21/03 - 02/27/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
02/27/03 - 03/06/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
03/06/03 - 03/13/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
03/13/03 - 03/20/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
03/20/03 - 03/28/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.2
03/28/03 - 04/03/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/03/03 - 04/10/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
04/10/03 - 04/17/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
04/17/03 - 04/24/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
04/24/03 - 05/01/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
05/01/03 - 05/08/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
05/08/03 - 05/15/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.4
05/15/03 - 05/22/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.6
05/22/03 - 05/29/03	0.1 +/- 0.1	0.3 +/- 0.1	< 0.5
05/29/03 - 06/05/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
06/05/03 - 06/12/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
06/12/03 - 06/19/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
06/19/03 - 06/26/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
06/26/03 - 07/02/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
07/02/03 - 07/10/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
07/10/03 - 07/17/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
07/17/03 - 07/24/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
07/24/03 - 07/31/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/31/03 - 08/07/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
08/07/03 - 08/14/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
08/14/03 - 08/21/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
08/21/03 - 08/28/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.5
08/28/03 - 09/04/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
09/04/03 - 09/11/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
09/11/03 - 09/18/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
09/18/03 - 09/25/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
09/25/03 - 10/02/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
10/02/03 - 10/09/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
10/09/03 - 10/16/03	0.2 +/- 0.1	2.6 +/- 0.1	< 0.3
10/16/03 - 10/23/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
10/23/03 - 10/30/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
10/30/03 - 11/06/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.4
11/06/03 - 11/14/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
11/14/03 - 11/19/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.5
11/19/03 - 11/25/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
11/25/03 - 12/03/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
12/03/03 - 12/11/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
12/11/03 - 12/18/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
12/18/03 - 12/24/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
12/24/03 - 12/31/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3

3.C.4
LIMERICK AIR SAMPLING DATA
INFORMATION CENTER (13B1)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
01/02/03 - 01/09/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
01/09/03 - 01/16/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
01/16/03 - 01/23/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
01/23/03 - 01/30/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
01/30/03 - 02/06/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
02/06/03 - 02/13/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
02/13/03 - 02/21/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
02/21/03 - 02/27/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
02/27/03 - 03/06/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
03/06/03 - 03/13/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
03/13/03 - 03/20/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
03/20/03 - 03/28/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
03/28/03 - 04/03/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
04/03/03 - 04/10/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
04/10/03 - 04/17/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
04/17/03 - 04/24/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
04/24/03 - 05/01/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
05/01/03 - 05/08/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
05/08/03 - 05/15/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
05/15/03 - 05/22/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.6
05/22/03 - 05/29/03	0.1 +/- 0.1	0.5 +/- 0.1	< 0.3
05/29/03 - 06/05/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/05/03 - 06/12/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
06/12/03 - 06/19/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.2
06/19/03 - 06/26/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
06/26/03 - 07/02/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.5
07/02/03 - 07/10/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
07/10/03 - 07/17/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
07/17/03 - 07/24/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.6
07/24/03 - 07/31/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/31/03 - 08/07/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
08/07/03 - 08/14/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
08/14/03 - 08/21/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
08/21/03 - 08/28/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.7
08/28/03 - 09/04/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
09/04/03 - 09/11/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
09/11/03 - 09/18/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
09/18/03 - 09/25/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.4
09/25/03 - 10/02/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.7
10/02/03 - 10/09/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
10/09/03 - 10/16/03	0.1 +/- 0.1	2.8 +/- 0.1	< 0.3
10/16/03 - 10/23/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
10/23/03 - 10/30/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
10/30/03 - 11/06/03	0.1 +/- 0.1	2.2 +/- 0.1	< 0.4
11/06/03 - 11/14/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
11/14/03 - 11/19/03	0.1 +/- 0.1	2.2 +/- 0.1	< 0.8
11/19/03 - 11/25/03	0.1 +/- 0.1	2.5 +/- 0.2	< 0.7
11/25/03 - 12/03/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
12/03/03 - 12/11/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
12/11/03 - 12/18/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
12/18/03 - 12/24/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.6
12/24/03 - 12/31/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3

*low air volume

LIMERICK AIR PARTICULATE COMPOSITES
(fCi/m3)

Station Number	Location	Collection Period	Cs-134	Cs-137
2B2	Sanatoga Substation	1/02/2003 - 4/3/2003	< 0.1	< 0.1
		4/3/2003 - 7/2/2003	< 0.1	< 0.1
		7/2/2003 - 10/2/2003	< 0.1	< 0.1
		10/2/2003 - 12/31/2003	< 0.1	< 0.1
6A2	Information Center	1/02/2003 - 4/3/2003	< 0.1	< 0.1
		4/3/2003 - 7/2/2003	< 0.1	< 0.1
		7/2/2003 - 10/2/2003	< 0.1	< 0.1
		10/2/2003 - 12/31/2003	< 0.1	< 0.1
9B2	Linfield Substation	1/02/2003 - 4/3/2003	< 0.1	< 0.1
		4/3/2003 - 7/2/2003	< 0.1	< 0.1
		7/2/2003 - 10/2/2003	< 0.1	< 0.1
		10/2/2003 - 12/31/2003	< 0.1	< 0.1
13B1	Schuykill Road	1/02/2003 - 4/3/2003	< 0.1	< 0.2
		4/3/2003 - 7/2/2003	< 0.2	< 0.2
		7/2/2003 - 10/2/2003	< 0.1	< 0.1
		10/2/2003 - 12/31/2003	< 0.1	< 0.1

3.E.1

LIMERICK WATER SAMPLING DATA
VINCENT DAM (7B1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/27/03	2 +/- 1	< 170	< 1	< 3	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 5
3/03/03	4 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
3/31/03	3 +/- 1	< 180	< 1	< 3	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 5
4/28/03	3 +/- 1	< 170	< 2	< 4	< 2	< 2	< 4	< 4 / < 3	< 4	< 2	< 2	< 10
5/30/03	3 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 4	< 2	< 2	< 10
7/01/03	3 +/- 1	< 180	< 1	< 3	< 2	< 1	< 3	< 2 / < 2	< 2	< 1	< 2	< 6
7/28/03	3 +/- 1	< 190	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 5	< 1	< 2	< 9
9/01/03	3 +/- 1	< 170	< 1	< 3	< 1	< 1	< 2	< 2 / < 2	< 3	< 1	< 1	< 6
9/29/03	4 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 8	< 1	< 1	< 13
10/27/03	3 +/- 1	< 60	< 1	< 3	< 1	< 1	< 3	< 2 / < 2	< 3	< 1	< 1	< 6
12/01/03	3 +/- 1	< 190	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 2	< 2	< 6
12/30/03	1 +/- 1	< 170	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 5

PHILADELPHIA SUBURBAN WATER CO. INTAKE (7H2)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/27/03	3 +/- 1	< 170	< 2	< 4	< 2	< 2	< 4	< 4 / < 2	< 4	< 2	< 2	< 11
3/03/03	4 +/- 1	< 170	< 1	< 3	< 1	< 1	< 3	< 2 / < 2	< 2	< 1	< 1	< 6
3/31/03	3 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 4 / < 3	< 5	< 2	< 3	< 11
4/28/03	2 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 6
5/30/03	4 +/- 1	< 180	< 2	< 4	< 2	< 2	< 3	< 4 / < 2	< 4	< 2	< 2	< 11
7/01/03	2 +/- 1	< 200	< 1	< 3	< 1	< 1	< 2	< 2 / < 2	< 2	< 1	< 1	< 6
7/28/03	3 +/- 1	< 190	< 2	< 5	< 3	< 2	< 5	< 4 / < 3	< 8	< 2	< 2	< 17
9/02/03	4 +/- 1	< 190	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 4	< 1	< 2	< 9
9/29/03	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 8	< 1	< 2	< 13
10/27/03	3 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
12/01/03	2 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
12/30/03	1 +/- 1	< 170	< 1	< 3	< 1	< 1	< 3	< 2 / < 2	< 2	< 1	< 1	< 6

3.E.2

LIMERICK INTAKE (UPSTREAM 10A1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/27/03	5 +/- 1	< 170	< 1	< 3	< 1	< 1	< 3	< 2 / < 2	< 3	< 1	< 2	< 6
3/03/03	3 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 9
3/31/03	4 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
4/28/03	2 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 4 / < 3	< 5	< 2	< 2	< 11
5/30/03	4 +/- 1	< 180	< 2	< 3	< 2	< 1	< 3	< 3 / < 2	< 4	< 2	< 2	< 8
7/01/03	3 +/- 1	< 200	< 1	< 3	< 1	< 1	< 2	< 2 / < 2	< 2	< 1	< 2	< 6
7/28/03	5 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 5	< 1	< 2	< 9
9/02/03	4 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
9/29/03	3 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 7	< 1	< 2	< 12
10/27/03	3 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 7
12/01/03	3 +/- 1	< 190	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 3	< 2	< 2	< 9
12/30/03	2 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 6

3.F

LIMERICK MILK SAMPLING DATA
(pCi/L)

Station Number	Collection Date	I-131	Cs-134	Cs-137	Ba-140	K-40
10B1	1/14/03	< 3	< 2	< 3	< 7	1450 +/- 60
	2/11/03	< 3	< 3	< 3	< 10	1450 +/- 65
	3/11/03	< 3	< 2	< 3	< 9	1380 +/- 65
	4/01/03	< 2	< 1	< 2	< 5	1450 +/- 37
	5/13/03	< 2	< 2	< 2	< 5	1420 +/- 41
	6/10/03	< 3	< 3	< 3	< 9	1420 +/- 64
	7/08/03	< 3	< 3	< 3	< 10	1340 +/- 66
	8/05/03	< 3	< 2	< 2	< 6	1410 +/- 41
	9/01/03	< 3	< 2	< 2	< 7	1390 +/- 40
	10/14/03	< 2	< 1	< 2	< 5	1450 +/- 37
	11/11/03	< 3	< 2	< 2	< 7	1380 +/- 42
	12/16/03	< 3	< 2	< 3	< 8	1430 +/- 60
09C1	1/14/03	< 2	< 2	< 2	< 7	1320 +/- 52
	2/11/03	< 3	< 2	< 3	< 7	1300 +/- 55
	3/11/03	< 2	< 2	< 2	< 7	1360 +/- 52
	4/01/03	< 2	< 2	< 2	< 5	1370 +/- 42
	5/13/03	< 2	< 2	< 2	< 5	1390 +/- 42
	6/10/03	< 2	< 2	< 2	< 6	1380 +/- 40
	7/08/03	< 3	< 2	< 2	< 8	1320 +/- 56
	8/05/03	< 2	< 1	< 2	< 6	1440 +/- 37
	9/01/03	< 4	< 2	< 2	< 9	1340 +/- 41
	10/14/03	< 2	< 1	< 2	< 6	1400 +/- 36
	11/11/02	< 3	< 2	< 2	< 7	1380 +/- 41
	12/16/03	< 3	< 2	< 2	< 7	1330 +/- 56

3.G

LIMERICK FISH, PRODUCE & SEDIMENT DATA
(pCi/kg)

Isotope	Bottomfeeding Fish* 5/7/2003	11/4/2003	Predator Fish* 5/7/2003	11/4/2003	Produce* 9/8/2003	Sediment** 6/18/2003	Sediment** 12/4/2003
I-131	7 +/- 3	< 4	< 3	< 4	< 16	166 +/- 79	< 22
Mn-54	< 2	< 3	< 2	< 3	< 3	< 9	< 9
Fe-59	< 6	< 6	< 5	< 6	< 7	< 27	< 20
Co-58	< 3	< 3	< 2	< 3	< 3	< 11	< 8
Co-60	< 3	< 3	< 2	< 3	< 3	< 11	< 9
Zn-65	< 6	< 6	< 5	< 6	< 7	< 22	< 19
Zr-Nb-95	< 4/< 3	< 4/< 3	< 4/< 2	< 5/< 3	< 5/< 4	< 21/< 16	< 17/< 12
Cs-134	< 2	< 2	< 2	< 2	< 3	< 8	< 7
Cs-137	< 3	< 3	< 2	< 3	< 3	115 +/- 8	97 +/- 7
Ba-140	< 10	< 11	< 9	< 11	< 26	< 127	< 51

* Wet Weight
** Dry Weight

4.A

PEACH BOTTOM ATOMIC POWER STATION
QUARTERLY TLD INTERCOMPARISON
(mR/std. mo.)

Station Number	Location	Collection Period	Proxtronics Results	ICN Results
1D1	Silver Spring Road	1/6/03 - 4/1/03	2.7 +/- 0.7	3.2 +/- 0.2
		4/1/03 - 7/1/03	4.3 +/- 0.9	4.2 +/- 0.3
		7/1/03 - 9/30/03	5.2 +/- 0.2	4.0 +/- 0.2
		9/30/03 - 1/5/04	5.5 +/- 0.5	3.7 +/- 0.9
5B1	Peter's Creek	1/6/03 - 4/1/03	2.9 +/- 0.6	3.2 +/- 0.2
		4/1/03 - 7/1/03	4.3 +/- 0.9	3.9 +/- 0.2
		7/1/03 - 9/30/03	4.5 +/- 0.9	4.2 +/- 0.2
		9/30/03 - 1/5/04	4.9 +/- 1.1	3.2 +/- 0.4
7A1	Burk's Hill	1/6/03 - 4/1/03	3.0 +/- 0.2	3.3 +/- 0.1
		4/1/03 - 7/1/03	4.1 +/- 1	4.1 +/- 0.2
		7/1/03 - 9/30/03	4.3 +/- 0	3.9 +/- 0.4
		9/30/03 - 1/5/04	4.7 +/- 1	3.2 +/- 0.3
11D1	Delta	1/6/03 - 4/1/03	1.8 +/- 0.6	1.8 +/- 0.1
		4/1/03 - 7/1/03	2.3 +/- 0.8	2.0 +/- 0.3
		7/1/03 - 9/30/03	2.2 +/- 0.2	2.2 +/- 0.2
		9/30/03 - 1/5/04	3.7 +/- 0.2	2.2 +/- 0.5
		Annual Average:	45.3 +/- 3.3	39.2 +/- 1.6

4.B

PEACH BOTTOM ATOMIC POWER STATION

THERMOLUMINESCENCE DOSIMETRY (TLD) DATA

(mR/std. mo.)

	Location	ICN* 1/6/03 to 4/1/03	BRP** 1/6/03 to 4/1/03	ICN* 4/1/03 to 7/1/03	ICN* 7/1/03 to 9/30/03	ICN* 9/30/03 TO 1/5/04	Annual Dose
01D1	Silver Spring Road	3.2 +/- 0.2	5.3 +/- 0.3	4.21 +/- 0.30	4.0 +/- 0.2	3.7 +/- 0.9	44.6 +/- 1.6
02C1	Bald Eagle Road	3.2 +/- 0.1	5.3 +/- 0.4	4.47 +/- 0.45	3.7 +/- 0.1	3.4 +/- 0.6	44.6 +/- 1.8
02F1	Drumore Twp. School	4.5 +/- 0.3	5.5 +/- 0.2	5.72 +/- 0.28	4.6 +/- 0.4	4.3 +/- 1.3	57.3 +/- 1.8
02L1	Quarryville	3.0 +/- 0.2	5.2 +/- 0.3	4.41 +/- 0.63	3.7 +/- 0.3	3.2 +/- 0.4	42.9 +/- 2.3
03C1	Slate Hill Road	3.9 +/- 0.1	5.7 +/- 0.7	5.08 +/- 0.24	4.7 +/- 0.1	4.1 +/- 1.1	53.2 +/- 2.3
03F1	Goshen Mill Road	3.2 +/- 0.3	4.9 +/- 0.1	3.50 +/- 0.13	5.1 +/- 2.2	3.1 +/- 0.3	44.7 +/- 6.6
04B1	Fulton Weather Station	2.0 +/- 0.1	3.9 +/- 0.1	2.70 +/- 0.25	1.9 +/- 0.2	2.3 +/- 0.4	27.0 +/- 1.1
04D1	Keeney Power Line	3.4 +/- 0.2	5.1 +/- 0.3	4.56 +/- 0.37	4.7 +/- 0.2	missing	38.1 +/- 1.7
05B1	Peter's Creek	3.2 +/- 0.2	5.2 +/- 0.9	3.93 +/- 0.16	4.2 +/- 0.2	3.2 +/- 0.4	43.9 +/- 2.9
05C1	Peach Bottom Road	3.7 +/- 0.0	5.2 +/- 0.6	4.89 +/- 0.30	4.3 +/- 0.1	3.5 +/- 0.6	49.4 +/- 2.0
05E1	Wakefield	2.7 +/- 0.1	4.2 +/- 0.1	4.14 +/- 0.32	4.1 +/- 2.2	2.8 +/- 0.1	41.2 +/- 6.6
06A1	B Cooling Tower	1.6 +/- 0.6	3.8 +/- 0.5	1.87 +/- 0.29	1.5 +/- 0.3	2.1 +/- 0.6	21.2 +/- 2.6
06D1	Riverview Road	4.2 +/- 0.4	6.0 +/- 0.5	6.17 +/- 0.19	5.1 +/- 0.1	3.8 +/- 0.9	57.9 +/- 2.1
07A1	Burk's Hill	3.3 +/- 0.1	5.1 +/- 0.4	4.17 +/- 0.17	3.9 +/- 0.4	3.2 +/- 0.3	43.7 +/- 1.7
07A5	D & E Cooling Tower	2.1 +/- 0.3	4.6 +/- 0.9	2.33 +/- 0.01	2.6 +/- 0.1	2.5 +/- 0.4	28.4 +/- 2.9
07A6	Burk Trailer	2.8 +/- 0.2	5.5 +/- 0.1	3.64 +/- 0.47	3.5 +/- 0.1	3.3 +/- 0.5	40.0 +/- 1.5
07B1	Canal Discharge	1.1 +/- 0.1	3.5 +/- 0.3	1.10 +/- 0.34	1.4 +/- 0.2	1.8 +/- 0.9	16.3 +/- 1.5
07E1	Pilottown Road	2.7 +/- 0.1	3.8 +/- 0.4	3.38 +/- 0.24	2.4 +/- 0.3	3.1 +/- 0.2	34.5 +/- 1.7
07H1	Conowingo, MD	2.4 +/- 0.3	4.0 +/- 0.2	3.15 +/- 0.18	2.7 +/- 0.1	3.0 +/- 0.2	33.7 +/- 1.2
08A1	SSE Sector Hill	3.3 +/- 0.1	5.0 +/- 0.4	4.48 +/- 0.15	4.0 +/- 0.3	4.2 +/- 1.2	47.9 +/- 1.6
08A2	Transmission Line Hill	4.5 +/- 0.1	6.0 +/- 0.9	4.90 +/- 0.13	5.0 +/- 0.3	4.1 +/- 1.2	55.5 +/- 2.9
08A3	Burk Residence	2.8 +/- 0.3	5.1 +/- 0.4	4.09 +/- 0.25	3.6 +/- 0.3	3.1 +/- 0.3	40.8 +/- 2.0
08E1	Broad Creek	2.6 +/- 0.4	5.1 +/- 0.4	3.43 +/- 0.27	3.1 +/- 0.1	2.9 +/- 0.1	36.1 +/- 1.8
08J1	Darlington, MD	2.5 +/- 0.1	3.8 +/- 0.2	2.49 +/- 0.05	2.1 +/- 0.2	2.3 +/- 0.4	28.4 +/- 1.0
09A1	South Substation Road	3.5 +/- 0.3	5.3 +/- 0.2	4.02 +/- 0.18	4.1 +/- 0.4	4.0 +/- 1.1	47.0 +/- 1.8
09C1	North Cooper Road	3.6 +/- 0.2	5.6 +/- 0.2	4.74 +/- 0.22	3.6 +/- 0.3	3.6 +/- 0.8	46.7 +/- 1.4
10E1	Macton Substation	3.7 +/- 0.0	4.8 +/- 0.6	3.52 +/- 0.11	3.7 +/- 0.1	3.3 +/- 0.5	42.4 +/- 1.8
11B1	Atom Road	3.7 +/- 0.1	5.3 +/- 0.1	4.71 +/- 0.40	5.1 +/- 1.2	4.0 +/- 1.1	52.6 +/- 3.7
11D1	Delta	1.8 +/- 0.1	3.5 +/- 0.6	2.01 +/- 0.28	2.2 +/- 0.2	2.2 +/- 0.5	24.5 +/- 2.1
12E1	Conastone Line	3.6 +/- 0.3	5.4 +/- 0.4	3.68 +/- 0.19	4.0 +/- 0.2	3.6 +/- 0.7	44.7 +/- 1.7
13F1	Transco Pipeline	4.0 +/- 0.2	5.5 +/- 0.5	4.48 +/- 0.11	5.0 +/- 0.3	3.9 +/- 1.0	52.3 +/- 1.9
13K1	Fawn Grove	3.6 +/- 0.2	5.3 +/- 0.6	3.94 +/- 0.03	4.4 +/- 0.7	4.0 +/- 1.1	47.8 +/- 2.8
14E1	Fin Substation	3.5 +/- 0.0	4.6 +/- 0.5	3.67 +/- 0.38	3.9 +/- 0.3	3.6 +/- 0.7	43.9 +/- 2.2
14K1	Airville	3.1 +/- 0.2	5.3 +/- 0.3	4.01 +/- 0.17	3.9 +/- 0.2	3.8 +/- 0.9	44.5 +/- 1.3
15E1	Slab Road	3.5 +/- 0.1	5.9 +/- 0.4	5.28 +/- 0.38	5.4 +/- 0.3	3.9 +/- 1.0	54.3 +/- 1.9
16E1	Muddy Run	2.6 +/- 0.4	4.3 +/- 0.3	4.01 +/- 0.21	3.8 +/- 0.2	2.9 +/- 0.1	40.0 +/- 1.7
						Annual Average:	42.0

*Control corrected-net exposure.

**Not corrected for control-gross exposure.

4.C.1

PEACH BOTTOM AIR SAMPLING DATA

SLATE HILL ROAD (3C2)

Collection Period	Particulates (x 0.01 pCi/m^3 Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/02 - 01/06/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
01/06/03 - 01/14/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
01/14/03 - 01/22/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
01/22/03 - 01/28/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/28/03 - 02/04/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
02/04/03 - 02/11/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
02/11/03 - 02/19/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
02/19/03 - 02/25/03	< 0.1	1.2 +/- 0.1	< 0.3
02/25/03 - 03/04/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
03/04/03 - 03/11/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
03/11/03 - 03/18/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
03/18/03 - 03/25/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
03/25/03 - 04/01/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
04/01/03 - 04/08/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
04/08/03 - 04/15/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
04/15/03 - 04/22/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/22/03 - 04/29/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
04/29/03 - 05/06/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
05/06/03 - 05/13/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
05/13/03 - 05/20/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
05/20/03 - 05/27/03	0.1 +/- 0.1	0.6 +/- 0.1	< 0.4
05/27/03 - 06/03/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
06/03/03 - 06/10/03	< 0.1	0.7 +/- 0.1	< 0.4
06/10/03 - 06/17/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
06/17/03 - 06/24/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
06/24/03 - 07/01/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
07/01/03 - 07/08/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
07/08/03 - 07/15/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
07/15/03 - 07/22/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/22/03 - 07/29/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/29/03 - 08/05/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
08/05/03 - 08/12/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
08/12/03 - 08/19/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
08/19/03 - 08/26/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
08/26/03 - 09/02/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
09/02/03 - 09/09/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/09/03 - 09/16/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
09/16/03 - 09/23/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
09/23/03 - 09/30/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
09/30/03 - 10/07/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
10/07/03 - 10/14/03	0.2 +/- 0.1	2.8 +/- 0.1	< 0.4
10/14/03 - 10/21/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
10/21/03 - 10/28/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
10/28/03 - 11/04/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
11/04/03 - 11/10/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
11/10/03 - 11/18/13	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
11/18/03 - 11/24/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
11/24/03 - 12/02/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
12/02/03 - 12/09/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
12/09/03 - 12/17/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
12/17/03 - 12/23/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/23/03 - 12/30/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2

4.C.2
PEACH BOTTOM AIR SAMPLING DATA
PETER'S CREEK (5B2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Particulates (x 0.01 pCi/m^3) Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/02 - 01/06/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
01/06/03 - 01/14/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
01/14/03 - 01/22/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
01/22/03 - 01/28/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/28/03 - 02/04/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
02/04/03 - 02/11/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
02/11/03 - 02/19/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
02/19/03 - 02/25/03	< 0.1	1.2 +/- 0.1	< 0.4
02/25/03 - 03/04/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
03/04/03 - 03/11/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.2
03/11/03 - 03/18/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
03/18/03 - 03/25/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
03/25/03 - 04/01/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/01/03 - 04/08/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/08/03 - 04/15/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/15/03 - 04/22/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
04/22/03 - 04/29/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
04/29/03 - 05/06/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
05/06/03 - 05/13/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.5
05/13/03 - 05/20/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
05/20/03 - 05/27/03	< 0.1	0.5 +/- 0.1	< 0.3
05/27/03 - 06/03/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
06/03/03 - 06/10/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
06/10/03 - 06/17/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
06/17/03 - 06/24/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
06/24/03 - 07/01/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
07/01/03 - 07/08/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
07/08/03 - 07/15/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
07/15/03 - 07/22/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
07/22/03 - 07/29/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
07/29/03 - 08/05/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
08/05/03 - 08/12/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
08/12/03 - 08/19/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
08/19/03 - 08/26/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
08/26/03 - 09/02/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
09/02/03 - 09/09/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
09/09/03 - 09/16/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
09/16/03 - 09/23/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.8
09/23/03 - 09/30/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
09/30/03 - 10/07/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
10/07/03 - 10/14/03	0.2 +/- 0.1	3.0 +/- 0.1	< 0.4
10/14/03 - 10/21/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
10/21/03 - 10/28/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
10/28/03 - 11/04/03	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
11/04/03 - 11/10/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
11/10/03 - 11/18/13	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
11/18/03 - 11/24/03	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
11/24/03 - 12/02/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
12/02/03 - 12/09/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
12/09/03 - 12/17/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
12/17/03 - 12/23/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
12/23/03 - 12/30/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2

4.C.3
PEACH BOTTOM AIR SAMPLING DATA
SOUTH SUBSTATION (9A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/02 - 01/06/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
01/06/03 - 01/14/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
01/14/03 - 01/22/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
01/22/03 - 01/28/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/28/03 - 02/04/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
02/04/03 - 02/11/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
02/11/03 - 02/19/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
02/19/03 - 02/25/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
02/25/03 - 03/04/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
03/04/03 - 03/11/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
03/11/03 - 03/18/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
03/18/03 - 03/25/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
03/25/03 - 04/01/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/01/03 - 04/08/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
04/08/03 - 04/15/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
04/15/03 - 04/22/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
04/22/03 - 04/29/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/29/03 - 05/06/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
05/06/03 - 05/13/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.4
05/13/03 - 05/20/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
05/20/03 - 05/27/03	0.1 +/- 0.1	0.5 +/- 0.1	< 0.4
05/27/03 - 06/03/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.6
06/03/03 - 06/10/03	< 0.1	0.7 +/- 0.1	< 0.4
06/10/03 - 06/17/03	< 0.1	1.6 +/- 0.1	< 0.5
06/17/03 - 06/24/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
06/24/03 - 07/01/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
07/01/03 - 07/08/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
07/08/03 - 07/15/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
07/15/03 - 07/22/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/22/03 - 07/29/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
07/29/03 - 08/05/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
08/05/03 - 08/12/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
08/12/03 - 08/19/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
08/19/03 - 08/26/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
08/26/03 - 09/02/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
09/02/03 - 09/09/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
09/09/03 - 09/16/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
09/16/03 - 09/23/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.5
09/23/03 - 09/30/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
09/30/03 - 10/07/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
10/07/03 - 10/14/03	0.1 +/- 0.1	2.9 +/- 0.1	< 0.3
10/14/03 - 10/21/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
10/21/03 - 10/28/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
10/28/03 - 11/04/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
11/04/03 - 11/10/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
11/10/03 - 11/18/13	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
11/18/03 - 11/24/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
11/24/03 - 12/02/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
12/02/03 - 12/09/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
12/09/03 - 12/17/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
12/17/03 - 12/23/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/23/03 - 12/30/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3

4.C.4
PEACH BOTTOM AIR SAMPLING DATA
DELTA (11D2)

Collection Period	Particulates (x 0.01 pCi/m^3 Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/02 - 01/06/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.6
01/06/03 - 01/14/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
01/14/03 - 01/22/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
01/22/03 - 01/28/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/28/03 - 02/04/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
02/04/03 - 02/11/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
02/11/03 - 02/19/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
02/19/03 - 02/25/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
02/25/03 - 03/04/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
03/04/03 - 03/11/03	0.2 +/- 0.1	1.8 +/- 0.1	< 0.3
03/11/03 - 03/18/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
03/18/03 - 03/25/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
03/25/03 - 04/01/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
04/01/03 - 04/08/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/08/03 - 04/15/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
04/15/03 - 04/22/03	*	*	*
04/22/03 - 04/29/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
04/29/03 - 05/06/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
05/06/03 - 05/13/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
05/13/03 - 05/20/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.2
05/20/03 - 05/27/03	0.1 +/- 0.1	0.5 +/- 0.1	< 0.4
05/27/03 - 06/03/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
06/03/03 - 06/10/03	0.1 +/- 0.1	0.6 +/- 0.1	< 0.4
06/10/03 - 06/17/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/17/03 - 06/24/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
06/24/03 - 07/01/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
07/01/03 - 07/08/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/08/03 - 07/15/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.6
07/15/03 - 07/22/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
07/22/03 - 07/29/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/29/03 - 08/05/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.5
08/05/03 - 08/12/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
08/12/03 - 08/19/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
08/19/03 - 08/26/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.6
08/26/03 - 09/02/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.5
09/02/03 - 09/09/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
09/09/03 - 09/16/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/16/03 - 09/23/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
09/23/03 - 09/30/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
09/30/03 - 10/07/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.6
10/07/03 - 10/14/03	0.1 +/- 0.1	3.1 +/- 0.1	< 0.5
10/14/03 - 10/21/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
10/21/03 - 10/28/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
10/28/03 - 11/04/03	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
11/04/03 - 11/10/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
11/10/03 - 11/18/13	0.1 +/- 0.1	1.7 +/- 0.1	< 1.0
11/18/03 - 11/24/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.4
11/24/03 - 12/02/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
12/02/03 - 12/09/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
12/09/03 - 12/17/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
12/17/03 - 12/23/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
12/23/03 - 12/30/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3

* Sample unavailable

4.D

PEACH BOTTOM AIR PARTICULATE COMPOSITES
(fCi/m3)

Station Number	Location	Collection Period	Cs-134	Cs-137
3C2	Slate Hill Rd.	12/31/2002 - 4/1/2003	< 0.1	< 0.1
		4/1/2003 - 7/1/2003	< 0.1	< 0.1
		7/1/2003 - 9/30/2003	< 0.1	< 0.1
		9/30/2003 - 12/30/2003	< 0.1	< 0.1
5B2	Peter's Creek	12/31/2002 - 4/1/2003	< 0.1	< 0.1
		4/1/2003 - 7/1/2003	< 0.1	< 0.1
		7/1/2003 - 9/30/2003	< 0.1	< 0.1
		9/30/2003 - 12/30/2003	< 0.1	< 0.1
9A2	Burk's Hill	12/31/2002 - 4/1/2003	< 0.1	< 0.1
		4/1/2003 - 7/1/2003	< 0.1	< 0.1
		7/1/2003 - 9/30/2003	< 0.1	< 0.1
		9/30/2003 - 12/30/2003	< 0.1	< 0.1
11D2	Delta	12/31/2002 - 4/1/2003	< 0.1	< 0.1
		4/1/2003 - 7/1/2003	< 0.2	< 0.1
		7/1/2003 - 9/30/2003	< 0.1	< 0.1
		9/30/2003 - 12/30/2003	< 0.1	< 0.1

4.E

PEACH BOTTOM WATER SAMPLING DATA

CONOWINGO DAM (7J1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/31/03	2 +/- 1	< 170	< 1	< 3	< 1	< 2	< 2	< 2 / < 2	< 2	< 1	< 2	< 5
2/28/03	2 +/- 1	< 180	< 2	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
4/04/03	2 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 3	< 2	< 2	< 8
5/02/03	2 +/- 1	< 170	< 1	< 2	< 1	< 1	< 2	< 2 / < 2	< 3	< 1	< 1	< 6
5/30/03	2 +/- 1	< 180	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
7/04/03	2 +/- 1	< 190	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 5
8/01/03	3 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 4 / < 3	< 5	< 3	< 3	< 12
9/05/03	3 +/- 1	< 190	< 1	< 3	< 2	< 1	< 3	< 2 / < 2	< 3	< 1	< 2	< 7
10/03/03	3 +/- 1	< 180	< 2	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
10/31/03	3 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
12/06/03	4 +/- 1	< 190	< 2	< 2	< 1	< 1	< 3	< 2 / < 2	< 2	< 2	< 2	< 5
1/02/04	1 +/- 1	< 170	< 2	< 4	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7

HOLTWOOD HYDROELECTRIC ELECTRIC PLANT (15F1
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/31/03	2 +/- 1	< 170	< 1	< 2	< 1	< 1	< 3	< 2 / < 1	< 2	< 1	< 1	< 5
2/28/03	3 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 2	< 2	< 2	< 1	< 5
4/04/03	3 +/- 1	< 180	< 2	< 3	< 2	< 1	< 3	< 2 / < 2	< 2	< 1	< 2	< 6
5/02/03	2 +/- 1	< 170	< 1	< 3	< 1	< 1	< 3	< 2 / < 2	< 3	< 1	< 1	< 7
5/30/03	3 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 4 / < 2	< 3	< 2	< 2	< 9
7/04/03	2 +/- 1	< 190	< 2	< 4	< 2	< 2	< 4	< 4 / < 3	< 4	< 2	< 3	< 9
8/01/03	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 4	< 2	< 2	< 7
9/05/03	3 +/- 1	< 190	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 3	< 1	< 1	< 6
10/03/03	3 +/- 1	< 180	< 1	< 2	< 1	< 1	< 3	< 2 / < 2	< 2	< 1	< 2	< 4
10/31/03	2 +/- 1	< 190	< 2	< 4	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 8
12/06/03	2 +/- 1	< 200	< 1	< 3	< 1	< 1	< 2	< 2 / < 2	< 2	< 1	< 1	< 5
1/02/04	2 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7

4.F

PEACH BOTTOM MILK SAMPLING DATA
(pCi/L)

Station Number	Collection Date	I-131	Cs-134	Cs-137	Ba-140	K-40
13A1	1/19/03	< 2	< 1	< 2	< 5	1490 +/- 38
	2/18/03	< 3	< 2	< 2	< 7	1420 +/- 41
	3/16/03	< 2	< 2	< 2	< 5	1460 +/- 42
	4/07/03	< 2	< 1	< 2	< 5	1430 +/- 41
	5/04/03	< 2	< 1	< 2	< 4	1330 +/- 37
	6/02/03	< 2	< 2	< 2	< 7	1430 +/- 60
	7/14/03	< 2	< 2	< 2	< 6	1420 +/- 53
	8/10/03	< 3	< 3	< 3	< 9	1340 +/- 61
	9/07/03	< 3	< 2	< 3	< 8	1350 +/- 57
	10/05/03	< 2	< 2	< 2	< 7	1440 +/- 55
	11/02/03	< 2	< 2	< 2	< 6	1500 +/- 54
	12/08/03	< 2	< 2	< 2	< 6	1420 +/- 54
09A1	1/19/03	< 2	< 2	< 2	< 6	1350 +/- 41
	2/18/03	< 3	< 2	< 2	< 7	1340 +/- 41
	3/16/03	< 2	< 2	< 2	< 7	1310 +/- 52
	4/06/03	< 2	< 2	< 2	< 6	1400 +/- 42
	5/04/03	< 2	< 2	< 2	< 5	1320 +/- 40
	6/02/03	< 2	< 2	< 2	< 6	1280 +/- 51
	7/14/03	< 2	< 2	< 2	< 7	1260 +/- 55
	8/10/03	< 2	< 2	< 2	< 7	1310 +/- 56
	9/07/03	< 3	< 3	< 3	< 9	1260 +/- 61
	10/05/03	< 2	< 2	< 2	< 8	1300 +/- 58
	11/02/03	< 2	< 1	< 2	< 4	1360 +/- 36
	12/07/03	< 2	< 1	< 2	< 5	1380 +/- 36

4.G

PEACH BOTTOM FISH, PRODUCE & SEDIMENT DATA
(pCi/kg)

Isotope	Produce* 10/14/2003	Sediment** 11/15/2003	Predator Fish* 10/28/2003	Bottomfeeding Fish* 10/29/2003
I-131	< 15	< 14	< 8	< 6
Mn-54	< 3	< 4	< 3	< 2
Fe-59	< 10	< 10	< 7	< 6
Co-58	< 4	< 4	< 3	< 2
Co-60	< 4	26 +/- 5	< 3	< 3
Zn-65	< 9	12 +/- 6	< 7	< 5
Zr-Nb-95	< 7/< 5	< 8/< 6	< 5/< 4	< 4/< 3
Cs-134	< 3	< 4	< 3	< 2
Cs-137	< 3	37 +/- 3	< 3	< 2
Ba-140	< 30	< 29	< 17	< 13

* Wet Weight/ small sample size
** Dry Weight

5.A

SUSQUEHANNA STEAM ELECTRIC STATION
QUARTERLY TLD INTERCOMPARISON
(mR/std. mo.)

Station Number	Location	Collection Period	Proxtronics Results	ICN Results
1D1	Mocanaqua	1/07/03 - 4/11/03	2.9 +/- 0.3	4.0 +/- 0.1
		4/11/03 - 7/02/03	5.0 +/- 0.1	4.2 +/- 0.3
		7/02/03 - 10/01/03	4.6 +/- 1.3	4.9 +/- 1.1
		10/01/03 - 1/07/04	6.2 +/- 0.1	4.2 +/- 1.4
2A1	Information Center	1/07/03 - 4/11/03	2.3 +/- 0.5	3.1 +/- 0.3
		4/11/03 - 7/02/03	3.8 +/- 0.1	4.1 +/- 0.1
		7/02/03 - 10/01/03	5.1 +/- 0.3	3.3 +/- 0.2
		10/01/03 - 1/07/04	5.8 +/- 0.1	2.5 +/- 0.2
7B1	Wapwallopen	1/07/03 - 4/11/03	2.6 +/- 0.5	3.4 +/- 0.2
		4/11/03 - 7/02/03	3.8 +/- 0.7	4.5 +/- 0.3
		7/02/03 - 10/01/03	3.8 +/- 0.5	3.1 +/- 0.2
		10/01/03 - 1/07/04	5.8 +/- 0.2	3.6 +/- 0.9
12F1	Berwick Substation	1/07/03 - 4/11/03	2.4 +/- 0.2	3.3 +/- 0.1
		4/11/03 - 7/02/03	3.7 +/- 0.6	3.9 +/- 0.5
		7/02/03 - 10/01/03	3.3 +/- 0.1	3.5 +/- 0.1
		10/01/03 - 1/07/04	4.7 +/- 1.5	3.3 +/- 0.7
			49.3 +/- 3.7	44.1 +/- 3.8

5.B

SUSQUEHANNA STEAM ELECTRIC STATION
THERMOLUMINESCENCE DOSIMETRY (TLD) DATA
(mR/std. mo.)

	Location	ICN* 1/7/03 to 4/11/03	BRP** 1/7/03 to 4/11/03	ICN* 4/11/03 to 7/2/03	ICN* 7/2/03 to 10/1/03	ICN* 10/1/04 TO 1/7/04	Annual Dose
01D1	Mocanaqua	4.0 +/- 0.1	5.4 +/- 0.6	4.15 +/- 0.25	4.9 +/- 1.1	4.2 +/- 1.4	51.6 +/- 3.8
02A1	InformationCenter	3.1 +/- 0.3	4.9 +/- 0.4	4.13 +/- 0.14	3.3 +/- 0.2	2.5 +/- 0.2	39.1 +/- 1.6
03D1	Pond Hill	3.2 +/- 0.0	5.0 +/- 0.4	4.26 +/- 0.30	3.1 +/- 0.2	3.4 +/- 0.7	41.6 +/- 1.6
03K1	Nanticoke	3.0 +/- 0.1	4.5 +/- 0.5	3.45 +/- 0.88	3.5 +/- 0.4	3.1 +/- 0.5	38.9 +/- 3.3
03M1	Wilkes-Barre	4.3 +/- 0.1	6.3 +/- 0.2	4.02 +/- 0.36	4.2 +/- 0.3	3.6 +/- 0.9	48.2 +/- 1.5
04A1	PP&L Construction Dept.	3.4 +/- 0.3	5.0 +/- 0.4	3.61 +/- 0.22	3.6 +/- 0.4	3.5 +/- 0.9	42.5 +/- 2.0
04E1	Ruckles Hill Road	3.6 +/- 0.1	5.2 +/- 0.2	4.45 +/- 0.61	3.9 +/- 0.2	3.6 +/- 1.0	46.7 +/- 2.1
05A1	Biological Lab	3.1 +/- 0.1	4.7 +/- 0.6	4.09 +/- 0.12	2.9 +/- 0.2	missing	30.2 +/- 2.0
05E1	Bloss Farm	3.1 +/- 0.1	5.4 +/- 0.6	4.56 +/- 0.50	3.1 +/- 0.1	3.7 +/- 1.0	43.2 +/- 2.4
06A1	SSES Sewage Plant	2.8 +/- 0.2	5.1 +/- 0.5	3.12 +/- 0.60	4.5 +/- 3.5	3.1 +/- 0.6	40.6 +/- 10.8
06A2	River Water Intake	2.5 +/- 0.1	4.6 +/- 0.4	3.40 +/- 0.36	3.0 +/- 0.3	3.4 +/- 0.8	36.8 +/- 1.9
06D1	Hobbie	3.6 +/- 0.3	5.2 +/- 1.1	3.95 +/- 0.46	4.2 +/- 0.3	3.8 +/- 1.1	46.6 +/- 3.8
06L1	Freeland	4.4 +/- 0.3	5.4 +/- 0.3	5.37 +/- 0.42	4.2 +/- 0.4	4.1 +/- 1.4	54.2 +/- 2.1
07B1	Wapwallopen	3.4 +/- 0.2	5.4 +/- 0.7	4.46 +/- 0.34	3.1 +/- 0.2	3.6 +/- 0.9	43.6 +/- 2.5
07B2	Heller's Orchard	2.8 +/- 0.1	5.0 +/- 0.1	2.78 +/- 0.25	2.9 +/- 0.4	3.1 +/- 0.5	34.6 +/- 1.4
07L1	Hazelton	2.9 +/- 0.2	4.4 +/- 0.5	4.09 +/- 0.69	3.7 +/- 0.1	3.4 +/- 0.8	42.3 +/- 2.6
09B1	South Transmission Line	2.5 +/- 0.2	4.5 +/- 0.4	3.33 +/- 0.54	2.6 +/- 0.2	3.2 +/- 0.6	34.7 +/- 2.2
09M1	Shenandoah	2.5 +/- 0.1	4.5 +/- 0.4	2.76 +/- 0.31	3.0 +/- 0.5	2.8 +/- 0.2	33.0 +/- 2.1
10B1	Beach Haven/Gen Tank	3.2 +/- 0.2	5.3 +/- 0.2	3.95 +/- 0.34	3.1 +/- 0.2	3.0 +/- 0.4	39.9 +/- 1.5
11A1	Golomb House	3.8 +/- 0.1	5.3 +/- 0.4	4.25 +/- 0.27	3.9 +/- 0.3	3.9 +/- 1.2	47.6 +/- 1.7
11F1	Nescopeck	3.4 +/- 0.2	5.4 +/- 0.2	4.24 +/- 0.34	3.3 +/- 0.4	3.5 +/- 0.8	43.4 +/- 1.8
12A1	WSW Perimeter Fence	4.0 +/- 0.1	6.4 +/- 0.5	4.96 +/- 0.40	3.9 +/- 0.1	3.4 +/- 0.9	49.1 +/- 2.0
12F1	Berwick Substation	3.3 +/- 0.1	5.7 +/- 0.1	3.91 +/- 0.45	3.5 +/- 0.1	3.3 +/- 0.7	42.0 +/- 1.5
12L1	Bloomsburg	2.8 +/- 0.2	4.8 +/- 0.1	3.69 +/- 0.30	3.0 +/- 0.2	2.9 +/- 0.4	37.3 +/- 1.3
13A1	West Perimeter Fence	4.9 +/- 0.4	6.6 +/- 0.3	4.86 +/- 0.25	5.9 +/- 0.6	4.0 +/- 1.4	59.1 +/- 2.5
14A1	WNW Perimeter Fence	3.8 +/- 0.2	6.0 +/- 0.4	4.43 +/- 0.24	4.0 +/- 0.3	3.4 +/- 0.7	46.8 +/- 1.8
15A1	Serafin Farm	3.3 +/- 0.3	5.2 +/- 0.5	4.20 +/- 0.30	3.6 +/- 0.7	3.8 +/- 1.1	44.7 +/- 2.9
16A1	NNW Perimeter Fence	5.4 +/- 0.1	6.4 +/- 1.0	6.39 +/- 0.88	6.8 +/- 3.2	4.7 +/- 2.0	69.8 +/- 10.4
16A2	Rupinski Farm	2.6 +/- 0.2	4.3 +/- 0.3	4.53 +/- 0.43	2.5 +/- 0.3	2.7 +/- 0.2	37.2 +/- 1.9
16B1	Walton Power Line	2.6 +/- 0.2	4.6 +/- 0.5	3.65 +/- 0.33	3.2 +/- 0.1	3.1 +/- 0.5	37.5 +/- 1.9

*Control corrected-net exposure.

**Not corrected for control-gross exposure.

5.C.1
SUSQUEHANNA STEAM AIR SAMPLING DATA
BEACH GROVE ROAD (3A1)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
01/02/03 - 01/07/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
01/07/03 - 01/15/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
01/15/03 - 01/22/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
01/22/03 - 01/29/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
01/29/03 - 02/05/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
02/05/03 - 02/13/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
02/13/03 - 02/20/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
02/20/03 - 02/26/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
02/26/03 - 03/05/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
03/05/03 - 03/12/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
03/12/03 - 03/19/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
03/19/03 - 03/27/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
03/27/03 - 04/03/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
04/03/03 - 04/09/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
04/09/03 - 04/16/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
04/16/03 - 04/23/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.7
04/23/03 - 04/30/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
04/30/03 - 05/07/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
05/07/03 - 05/14/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
05/14/03 - 05/21/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
05/21/03 - 05/28/03	< 0.1	0.4 +/- 0.1	< 0.3
05/28/03 - 06/04/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
06/04/03 - 06/11/03	< 0.1	0.7 +/- 0.1	< 0.3
06/11/03 - 06/18/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/18/03 - 06/25/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/25/03 - 07/02/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
07/02/03 - 07/09/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
07/09/03 - 07/16/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
07/16/03 - 07/23/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
07/23/03 - 07/30/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
07/30/03 - 08/06/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
08/06/03 - 08/13/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
08/13/03 - 08/20/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
08/20/03 - 08/27/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.5
08/27/03 - 09/03/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
09/03/03 - 09/10/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
09/10/03 - 09/17/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
09/17/03 - 09/24/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
09/24/03 - 10/01/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
10/01/03 - 10/08/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
10/08/03 - 10/15/03	0.1 +/- 0.1	2.4 +/- 0.1	< 0.3
10/15/03 - 10/22/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
10/22/03 - 10/29/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
10/29/03 - 11/05/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
11/05/03 - 11/13/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
11/13/03 - 11/19/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.7
11/19/03 - 11/25/03	0.1 +/- 0.1	2.4 +/- 0.2	< 0.7
11/25/03 - 12/03/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.5
12/03/03 - 12/10/03	< 0.1	1.4 +/- 0.1	< 0.6
12/10/03 - 12/16/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
12/16/03 - 12/23/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.6
12/23/03 - 12/30/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4

5.C.2
SUSQUEHANNA STEAM AIR SAMPLING DATA
BIOLOGICAL LABORATORY (5A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
01/02/03 - 01/07/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.5
01/07/03 - 01/15/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
01/15/03 - 01/22/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
01/22/03 - 01/29/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
01/29/03 - 02/05/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
02/05/03 - 02/13/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
02/13/03 - 02/20/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
02/20/03 - 02/26/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
02/26/03 - 03/05/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
03/05/03 - 03/12/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
03/12/03 - 03/19/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
03/19/03 - 03/27/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
03/27/03 - 04/03/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
04/03/03 - 04/09/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
04/09/03 - 04/16/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
04/16/03 - 04/23/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
04/23/03 - 04/30/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
04/30/03 - 05/07/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
05/07/03 - 05/14/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.5
05/14/03 - 05/21/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.4
05/21/03 - 05/28/03	< 0.1	0.4 +/- 0.1	< 0.4
05/28/03 - 06/04/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
06/04/03 - 06/11/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
06/11/03 - 06/18/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
06/18/03 - 06/25/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/25/03 - 07/02/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
07/02/03 - 07/09/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.5
07/09/03 - 07/16/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
07/16/03 - 07/23/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
07/23/03 - 07/30/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.6
07/30/03 - 08/06/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
08/06/03 - 08/13/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
08/13/03 - 08/20/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
08/20/03 - 08/27/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
08/27/03 - 09/03/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/03/03 - 09/10/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
09/10/03 - 09/17/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
09/17/03 - 09/24/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
09/24/03 - 10/01/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
10/01/03 - 10/08/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
10/08/03 - 10/15/03	0.1 +/- 0.1	2.5 +/- 0.1	< 0.3
10/15/03 - 10/22/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
10/22/03 - 10/29/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
10/29/03 - 11/05/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
11/05/03 - 11/13/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
11/13/03 - 11/19/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
11/19/03 - 11/25/03	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
11/25/03 - 12/03/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
12/03/03 - 12/10/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
12/10/03 - 12/16/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
12/16/03 - 12/23/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
12/23/03 - 12/30/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4

5.C.3
SUSQUEHANNA STEAM AIR SAMPLING DATA
EMERGENCY OPERATING FACILITY (12A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
01/02/03 - 01/07/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
01/07/03 - 01/15/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
01/15/03 - 01/22/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
01/22/03 - 01/29/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
01/29/03 - 02/05/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
02/05/03 - 02/13/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
02/13/03 - 02/20/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
02/20/03 - 02/26/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
02/26/03 - 03/05/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.5
03/05/03 - 03/12/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
03/12/03 - 03/19/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
03/19/03 - 03/27/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
03/27/03 - 04/03/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
04/03/03 - 04/09/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.5
04/09/03 - 04/16/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
04/16/03 - 04/23/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
04/23/03 - 04/30/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
04/30/03 - 05/07/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
05/07/03 - 05/14/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
05/14/03 - 05/21/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
05/21/03 - 05/28/03	< 0.1	0.4 +/- 0.1	< 0.3
05/28/03 - 06/04/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
06/04/03 - 06/11/03	< 0.1	0.6 +/- 0.1	< 0.3
06/11/03 - 06/18/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
06/18/03 - 06/25/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/25/03 - 07/02/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
07/02/03 - 07/09/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.5
07/09/03 - 07/16/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
07/16/03 - 07/23/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
07/23/03 - 07/30/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
07/30/03 - 08/06/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
08/06/03 - 08/13/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
08/13/03 - 08/20/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
08/20/03 - 08/27/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.5
08/27/03 - 09/03/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
09/03/03 - 09/10/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/10/03 - 09/17/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
09/17/03 - 09/24/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
09/24/03 - 10/01/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
10/01/03 - 10/08/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
10/08/03 - 10/15/03	0.1 +/- 0.1	2.5 +/- 0.1	< 0.4
10/15/03 - 10/22/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
10/22/03 - 10/29/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
10/29/03 - 11/05/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.2
11/05/03 - 11/13/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
11/13/03 - 11/19/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
11/19/03 - 11/25/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.4
11/25/03 - 12/03/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/03/03 - 12/10/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
12/10/03 - 12/16/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
12/16/03 - 12/23/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/23/03 - 12/30/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4

5.C.4
SUSQUEHANNA STEAM AIR SAMPLING DATA
BERWICK HOSPITAL (12E1)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
01/02/03 - 01/07/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
01/07/03 - 01/15/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
01/15/03 - 01/22/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
01/22/03 - 01/29/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
01/29/03 - 02/05/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.6
02/05/03 - 02/13/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
02/13/03 - 02/20/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
02/20/03 - 02/26/03	< 0.1	1.7 +/- 0.1	< 0.5
02/26/03 - 03/05/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.7
03/05/03 - 03/12/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
03/12/03 - 03/19/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
03/19/03 - 03/27/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
03/27/03 - 04/03/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
04/03/03 - 04/09/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.6
04/09/03 - 04/16/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
04/16/03 - 04/23/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
04/23/03 - 04/30/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
04/30/03 - 05/07/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
05/07/03 - 05/14/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.5
05/14/03 - 05/21/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.5
05/21/03 - 05/28/03	0.1 +/- 0.1	0.5 +/- 0.1	< 0.2
05/28/03 - 06/04/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.7
06/04/03 - 06/11/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
06/11/03 - 06/18/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/18/03 - 06/25/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
06/25/03 - 07/02/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.5
07/02/03 - 07/09/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.5
07/09/03 - 07/16/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
07/16/03 - 07/23/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
07/23/03 - 07/30/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
07/30/03 - 08/06/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
08/06/03 - 08/13/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
08/13/03 - 08/20/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
08/20/03 - 08/27/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.7
08/27/03 - 09/03/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.5
09/03/03 - 09/10/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
09/10/03 - 09/17/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
09/17/03 - 09/24/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.6
09/24/03 - 10/01/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
10/01/03 - 10/08/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
10/08/03 - 10/15/03	0.1 +/- 0.1	2.7 +/- 0.1	< 0.4
10/15/03 - 10/22/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
10/22/03 - 10/29/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
10/29/03 - 11/05/03	0.1 +/- 0.1	2.3 +/- 0.1	< 0.2
11/05/03 - 11/13/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
11/13/03 - 11/19/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
11/19/03 - 11/25/03	0.1 +/- 0.1	2.3 +/- 0.1	< 0.4
11/25/03 - 12/03/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
12/03/03 - 12/10/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
12/10/03 - 12/16/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
12/16/03 - 12/23/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
12/23/03 - 12/30/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4

5.D

SUSQUEHANNA STEAM AIR PARTICULATE COMPOSITE
(fCi/m3)

Station Number	Location	Collection Period	Cs-134	Cs-137
03A1	Beach Grove Rd.	1/02/2003 - 4/3/2003	< 0.1	< 0.1
		4/3/2003 - 7/2/2003	< 0.1	< 0.1
		7/2/2003 - 10/1/2003	< 0.1	< 0.1
		10/1/2003 - 12/30/2003	< 0.2	< 0.2
5A2	Biological Lab	1/02/2003 - 4/3/2003	< 0.1	< 0.1
		4/3/2003 - 7/2/2003	< 0.1	< 0.1
		7/2/2003 - 10/1/2003	< 0.1	< 0.1
		10/1/2003 - 12/30/2003	< 0.1	< 0.1
12A2	Emergency Operations Facility	1/02/2003 - 4/3/2003	< 0.1	< 0.1
		4/3/2003 - 7/2/2003	< 0.1	< 0.1
		7/2/2003 - 10/1/2003	< 0.1	< 0.1
		10/1/2003 - 12/30/2003	< 0.1	< 0.1
12E1	Berwick Hospital	1/02/2003 - 4/3/2003	< 0.1	< 0.2
		4/3/2003 - 7/2/2003	< 0.1	< 0.2
		7/2/2003 - 10/1/2003	< 0.1	< 0.1
		10/1/2003 - 12/30/2003	< 0.1	< 0.2

5.E.1

SUSQUEHANNA STEAM SURFACE WATER DATA

DOWNSTREAM OF DISCHARGE (6A3)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/27/03	2 +/- 1	< 170	< 1	< 3	< 1	< 1	< 2	< 2 / <1	< 2	< 1	< 1	< 5
3/03/03	2 +/- 1	< 180	< 1	< 3	< 1	< 2	< 3	< 2 / <2	< 2	< 1	< 2	< 5
3/31/03	3 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 4 / <2	< 4	< 2	< 2	< 10
4/28/03	3 +/- 1	< 170	< 1	< 3	< 1	< 1	< 3	< 2 / <2	< 3	< 1	< 2	< 7
6/02/03	3 +/- 1	< 180	< 1	< 2	< 1	< 1	< 3	< 2 / <1	< 2	< 1	< 1	< 4
6/30/03	3 +/- 1	< 200	< 1	< 3	< 2	< 1	< 3	< 3 / <2	< 3	< 2	< 2	< 7
7/28/03	3 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / <1	< 2	< 1	< 1	< 4
8/25/03	3 +/- 1	< 190	< 1	< 3	< 1	< 2	< 3	< 2 / <2	< 2	< 1	< 2	< 5
9/29/03	2 +/- 1	< 180	< 1	< 3	< 1	< 1	< 3	< 2 / <1	< 2	< 1	< 2	< 5
11/03/03	2 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 2 / <2	< 3	< 1	< 2	< 6
12/01/03	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 4	< 3 / <2	< 3	< 2	< 2	< 8
12/29/03	2 +/- 1	< 180	< 1	< 2	< 1	< 2	< 2	< 2 / <1	< 2	< 1	< 2	< 4

RIVER WATER INTAKE UPSTREAM (6A4)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/27/03	1 +/- 1	< 170	< 1	< 2	< 1	< 1	< 2	< 2 / <1	< 2	< 1	< 1	< 4
3/03/03	2 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / <1	< 2	< 1	< 2	< 5
3/31/03	3 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / <2	< 3	< 1	< 1	< 6
4/28/03	< 2	< 180	< 1	< 2	< 1	< 1	< 3	< 2 / <2	< 3	< 1	< 1	< 6
6/02/03	2 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 4 / <2	< 3	< 2	< 2	< 8
6/30/03	3 +/- 1	< 200	< 2	< 4	< 2	< 2	< 3	< 3 / <2	< 4	< 2	< 2	< 9
7/28/03	3 +/- 1	< 190	< 1	< 2	< 1	< 1	< 2	< 2 / <1	< 2	< 1	< 1	< 4
8/25/03	4 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / <2	< 2	< 2	< 2	< 6
9/29/03	3 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / <2	< 2	< 2	< 2	< 6
11/03/03	2 +/- 1	< 190	< 1	< 3	< 1	< 2	< 3	< 2 / <2	< 3	< 1	< 2	< 7
12/01/03	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / <2	< 3	< 2	< 2	< 9
12/29/03	2 +/- 1	< 180	< 1	< 3	< 1	< 2	< 3	< 2 / <2	< 2	< 1	< 2	< 4

5.E.2

DANVILLE FINISHED WATER DOWNSTREAM(12N1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/31/03	< 2	< 170	< 1	< 3	< 1	< 1	< 2	< 2 / < 2	< 3	< 1	< 1	< 7
2/28/03	2 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 5
3/31/03	< 3	< 180	< 2	< 4	< 2	< 2	< 4	< 4 / < 3	< 5	< 3	< 3	< 12
4/30/03	< 2	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 4
5/31/03	2 +/- 1	< 200	< 1	< 3	< 2	< 1	< 2	< 3 / < 2	< 27	< 1	< 1	< 25
6/30/03	1 +/- 1	< 200	< 2	< 4	< 2	< 2	< 4	< 4 / < 3	< 5	< 2	< 3	< 11
7/31/03	2 +/- 1	< 220	< 2	< 4	< 2	< 2	< 4	< 4 / < 3	< 4	< 2	< 3	< 11
8/31/03	2 +/- 1	< 190	< 2	< 4	< 2	< 2	< 4	< 4 / < 2	< 5	< 2	< 2	< 11
9/30/03	2 +/- 1	< 180	< 2	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 2	< 2	< 5
10/31/03	2 +/- 1	< 190	< 1	< 3	< 2	< 1	< 2	< 2 / < 2	< 3	< 1	< 2	< 7
11/30/03	1 +/- 1	< 190	< 1	< 2	< 1	< 1	< 2	< 2 / < 2	< 3	< 1	< 1	< 5
12/31/03	< 2	< 180	< 1	< 3	< 1	< 1	< 2	< 2 / < 2	< 3	< 1	< 1	< 6

5.F

SUSQUEHANNA MILK SAMPLING

(pCi/L)

Station Number	Collection Date	I-131	Cs-134	Cs-137	Ba-140	K-40
10D1	1/06/03	< 2	< 2	< 2	< 5	1360 +/- 41
	2/03/03	< 2	< 2	< 2	< 5	1400 +/- 41
	3/03/03	< 3	< 2	< 2	< 7	1310 +/- 55
	4/07/03	< 2	< 2	< 2	< 7	1380 +/- 52
	5/05/03	< 2	< 1	< 2	< 5	1460 +/- 37
	6/04/03	< 2	< 2	< 2	< 6	1350 +/- 53
	7/06/03	< 2	< 2	< 2	< 6	1320 +/- 51
	8/04/03	< 2	< 2	< 2	< 7	1330 +/- 60
	9/03/03	< 2	< 2	< 2	< 5	1360 +/- 42
	10/05/03	< 2	< 2	< 2	< 7	1360 +/- 53
	11/03/03	< 2	< 2	< 2	< 7	1300 +/- 52
	12/08/03	< 2	< 2	< 2	< 6	1530 +/- 43
12B1	1/06/03	< 2	< 1	< 2	< 5	1380 +/- 36
	2/03/03	< 2	< 2	< 2	< 5	1360 +/- 41
	3/03/03	< 3	< 3	< 3	< 9	1320 +/- 61
	4/07/03	< 3	< 2	< 2	< 8	1420 +/- 61
	5/05/03	< 2	< 2	< 2	< 7	1430 +/- 54
	6/04/03	< 2	< 2	< 3	< 7	1380 +/- 59
	7/06/03	< 3	< 2	< 2	< 8	1390 +/- 58
	8/04/03	< 2	< 2	< 3	< 7	1310 +/- 56
	9/03/03	< 1	< 1	< 2	< 4	1440 +/- 37
	10/05/03	< 2	< 1	< 2	< 5	1380 +/- 36
	11/03/03	< 3	< 2	< 2	< 8	1390 +/- 57
	12/08/03	< 2	< 2	< 2	< 6	1510 +/- 43

5.G

SUSQUEHANNA STEAM FISH, PRODUCE & SEDIMENT DATA
(pCi/kg)

Isotope	Fish* 10/8/2003	Control Sediment** 10/23/2003	Sediment** 10/23/2003	Produce* 8/21/2003
I-131	< 26	< 25	< 23	< 10
Mn-54	< 4	< 8	< 7	< 3
Fe-59	< 11	< 20	< 17	< 8
Co-58	< 4	< 8	< 7	< 3
Co-60	< 4	< 9	< 7	< 3
Zn-65	< 9	< 19	< 17	< 6
Zr-Nb-95	< 7/< 5	< 17/< 11	< 14/< 10	< 5/< 3
Cs-134	< 3	< 7	< 6	< 2
Cs-137	< 3	58 +/- 7	61 +/- 6	< 3
Ba-140	< 40	< 55	< 47	< 19

* Wet Weight
** Dry Weight

6.A

THREE MILE ISLAND NUCLEAR STATION
QUARTERLY TLD INTERCOMPARISON
(mR/std. mo.)

Station Number	Location	Collection Period	Proxtronics Results	ICN Results
1C1	Mill Street	1/06/03 - 4/01/03	1.2 +/- 0.4	2.1 +/- 0.2
	Substation	4/01/03 - 7/01/03	2.1 +/- 0.1	1.2 +/- 0.5
		7/01/03 - 9/30/03	1.8 +/- 0.4	1.5 +/- 0.6
		9/30/03 - 1/05/04	2.9 +/- 0.2	1.9 +/- 1.2
5A1	Visitors Center	1/06/03 - 4/01/03	1.8 +/- 0.3	2.5 +/- 0.2
		4/01/03 - 7/01/03	2.1 +/- 0.8	2.0 +/- 0.2
		7/01/03 - 9/30/03	2.3 +/- 0.1	2.1 +/- 0.6
		9/30/03 - 1/05/04	2.3 +/- 0.6	2.4 +/- 0.8
8C1	Falmouth	1/06/03 - 4/01/03	1.1 +/- 0.7	7.8 +/- 2.4
		4/01/03 - 7/01/03	2.8 +/- 0.1	0.9 +/- 0.3
		7/01/03 - 9/30/03	1.6 +/- 0.3	2.7 +/- 0.5
		9/30/03 - 1/05/04	2.3 +/- 0.3	2.5 +/- 0.8
12B1	Goldsboro	1/06/03 - 4/01/03	1.1 +/- 0.3	2.0 +/- 0.4
		4/01/03 - 7/01/03	1.8 +/- 0.2	2.7 +/- 0.3
		7/01/03 - 9/30/03	1.8 +/- 0.1	1.5 +/- 0.5
		9/30/03 - 1/05/04	1.8 +/- 1.0	2.3 +/- 0.9
			23.1 +/- 2.5	28.5 +/- 4.3

6.B

THREE MILE ISLAND NUCLEAR STATION
THERMOLUMINESCENCE DOSIMETRY (TLD) DATA

	Location	ICN* 1/9/03 to 4/3/03	BRP** 1/9/03 to 4/3/03	ICN* 4/3/03 To 7/3/03	ICN* 7/3/03 To 10/3/03	ICN* 10/3/03 To 1/6/04	Annual Dose
01C1	Mill Street Substation	2.1 +/- 0.2	4.1 +/- 0.1	1.24 +/- 0.52	1.54 +/- 0.55	1.9 +/- 1.2	20.3 +/- 2.4
01J1	Hummelstown	2.0 +/- 0.3	4.2 +/- 0.5	1.75 +/- 0.13	3.4 +/- 0.51	2.3 +/- 0.9	28.2 +/- 2.3
02K1	Hershey	2.6 +/- 0.3	4.5 +/- 0.5	2.19 +/- 0.30	3.08 +/- 0.46	missing	23.6 +/- 2.4
03E1	Kennedy Lane	3.0 +/- 0.1	5.1 +/- 0.1	2.57 +/- 0.20	3.09 +/- 0.44	2.9 +/- 0.4	34.5 +/- 1.5
04F1	Beagle Road	3.3 +/- 0.4	3.7 +/- 0.2	2.94 +/- 0.44	3.77 +/- 0.55	3.5 +/- 0.2	40.4 +/- 2.4
04J1	Bellaire	3.5 +/- 0.5	4.2 +/- 0.4	3.58 +/- 0.47	4.04 +/- 0.34	3.4 +/- 0.1	43.3 +/- 2.6
05A1	Visitors Center	2.5 +/- 0.2	4.3 +/- 0.3	1.99 +/- 0.19	2.06 +/- 0.62	2.4 +/- 0.8	26.8 +/- 2.3
05H1	Elizabethtown	3.1 +/- 0.1	4.3 +/- 0.5	2.52 +/- 0.28	2.7 +/- 0.56	3.1 +/- 0.2	34.3 +/- 2.4
06A1	500 KeV Substation	2.5 +/- 0.3	3.2 +/- 0.2	2.46 +/- 0.47	3.77 +/- 0.47	2.7 +/- 0.5	34.2 +/- 2.3
06F1	Elizabethtown Sewage Plant	3.0 +/- 0.1	6.1 +/- 0.8	2.68 +/- 0.41	2.97 +/- 0.71	3.1 +/- 0.2	35.3 +/- 3.4
07F1	Bainbridge	3.9 +/- 0.3	3.7 +/- 0.5	2.94 +/- 0.54	3.04 +/- 0.55	2.5 +/- 0.8	37.2 +/- 2.9
07K1	Marietta	5.3 +/- 0.5	3.6 +/- 0.5	5.08 +/- 0.19	5.08 +/- 0.33	3.8 +/- 0.5	57.8 +/- 2.4
08C1	Falmouth	7.8 +/- 2.4	4.5 +/- 0.2	0.92 +/- 0.30	2.73 +/- 0.52	2.5 +/- 0.8	41.8 +/- 7.4
08C3	York Haven	1.8 +/- 0.2	3.6 +/- 0.2	2.21 +/- 0.19	2.11 +/- 0.48	1.9 +/- 1.3	24.0 +/- 1.8
08E1	Brunners Island	1.9 +/- 0.1	4.1 +/- 0.7	3.06 +/- 0.02	2.45 +/- 0.19	2.4 +/- 0.8	29.6 +/- 2.2
09D1	Cly Substation	2.2 +/- 0.2	3.6 +/- 0.4	1.94 +/- 0.15	2.23 +/- 0.57	2.3 +/- 1.0	26.0 +/- 2.2
09H1	Manchester	2.8 +/- 0.2	8.0 +/- 0.2	3.83 +/- 0.17	3.27 +/- 0.56	2.6 +/- 0.6	37.7 +/- 2.0
09L1	York	5.6 +/- 0.4	3.7 +/- 0.5	6.83 +/- 0.05	5.72 +/- 0.36	4.5 +/- 1.1	68.1 +/- 2.3
10C1	Pleasant Grove	2.0 +/- 0.3	4.0 +/- 0.6	1.75 +/- 0.12	1.93 +/- 0.46	2.0 +/- 1.1	23.0 +/- 2.4
10E1	Strinestown	2.0 +/- 0.3	5.1 +/- 0.9	2.01 +/- 0.18	2.14 +/- 0.52	2.2 +/- 1.0	25.0 +/- 3.3
12B1	Goldsboro	2.0 +/- 0.4	4.0 +/- 0.5	2.69 +/- 0.32	1.46 +/- 0.48	2.3 +/- 0.9	25.2 +/- 2.6
12E1	Newberrytown	2.3 +/- 0.0	3.3 +/- 0.3	3.61 +/- 0.01	2.15 +/- 0.42	2.7 +/- 0.6	32.4 +/- 1.6
13B1	Goldsboro Marina	2.4 +/- 0.2	4.9 +/- 0.1	2.68 +/- 0.35	2.03 +/- 0.60	2.6 +/- 0.7	29.1 +/- 2.2
14E1	Redland Acres	2.3 +/- 0.3	4.8 +/- 0.3	3.28 +/- 0.22	2.46 +/- 0.59	2.7 +/- 1.4	32.2 +/- 2.2
14L1	Camp Hill	2.8 +/- 0.0	3.3 +/- 0.3	3.70 +/- 0.21	3.25 +/- 0.38	3.3 +/- 0.0	39.2 +/- 1.6
14M1	Mechanicsburg	3.0 +/- 0.2	4.4 +/- 0.2	4.84 +/- 0.27	2.99 +/- 0.44	3.4 +/- 0.5	42.6 +/- 1.8
15F1	Highspire	2.9 +/- 0.3	3.8 +/- 0.2	2.10 +/- 0.28	3.14 +/- 0.70	2.5 +/- 0.8	31.9 +/- 2.5
15L1	Harrisburg	1.9 +/- 0.3	5.2 +/- 0.8	2.23 +/- 0.30	1.3 +/- 0.71	1.7 +/- 1.4	21.2 +/- 3.5
16C1	Crawford Station	3.2 +/- 0.2	4.0 +/- 0.7	2.95 +/- 0.20	3.25 +/- 0.31	3.1 +/- 0.4	37.2 +/- 2.5
16J1	Rutherford Fire Co.	2.8 +/- 0.2	4.6 +/- 0.4	3.42 +/- 0.13	2.35 +/- 0.43	2.5 +/- 0.7	33.4 +/- 1.9
	*TOQT02 was a replacement for stolen TLD - Placed 9/11/02 - 10/9/02				Annual Average:	2.7	

6.C.1
THREE MILE ISLAND AIR SAMPLING DATA
MILL STREET SUBSTATION (1C2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3
12/31/02 - 01/09/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
01/09/03 - 01/15/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/15/03 - 01/22/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
01/22/03 - 01/29/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
01/29/03 - 02/05/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
02/05/03 - 02/12/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
02/12/03 - 02/20/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
02/20/03 - 02/26/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
02/26/03 - 03/05/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
03/05/03 - 03/12/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.2
03/12/03 - 03/19/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
03/19/03 - 03/25/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
03/25/03 - 04/04/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/04/03 - 04/09/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
04/09/03 - 04/16/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
04/16/03 - 04/23/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/23/03 - 04/30/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
04/30/03 - 05/08/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
05/08/03 - 05/14/03	< 0.1	0.7 +/- 0.1	< 0.3
05/14/03 - 05/21/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
05/21/03 - 05/28/03	< 0.1	0.4 +/- 0.1	< 0.3
05/28/03 - 06/04/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
06/04/03 - 06/11/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
06/11/03 - 06/18/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/18/03 - 06/25/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/25/03 - 07/03/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
07/03/03 - 07/09/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
07/09/03 - 07/16/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
07/16/03 - 07/23/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
07/23/03 - 07/30/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/30/03 - 08/06/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.5
08/06/03 - 08/13/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
08/13/03 - 08/20/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
08/20/03 - 08/27/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
08/27/03 - 09/03/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
09/03/03 - 09/10/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
09/10/03 - 09/17/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
09/17/03 - 09/24/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
09/24/03 - 10/02/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
10/02/03 - 10/08/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
10/08/03 - 10/15/03	0.1 +/- 0.1	2.7 +/- 0.1	< 0.3
10/15/03 - 10/22/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
10/22/03 - 10/29/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
10/29/03 - 11/05/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
11/05/03 11/12/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
11/12/03 - 11/19/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
11/19/03 - 11/25/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
11/25/03 - 12/03/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
12/03/03 - 12/09/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
12/09/03 - 12/16/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
12/16/03 - 12/24/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
12/24/03 - 12/31/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3

6.C.2
THREE MILE ISLAND AIR SAMPLING DATA
VISITORS CENTER (5A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Particulates (x 0.01 pCi/m^3) Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/02 - 01/09/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
01/09/03 - 01/15/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
01/15/03 - 01/22/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
01/22/03 - 01/29/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
01/29/03 - 02/05/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
02/05/03 - 02/12/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
02/12/03 - 02/20/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
02/20/03 - 02/26/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
02/26/03 - 03/05/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
03/05/03 - 03/12/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
03/12/03 - 03/19/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
03/19/03 - 03/25/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
03/25/03 - 04/04/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/04/03 - 04/09/03	< 0.1	0.6 +/- 0.1	< 0.3
04/09/03 - 04/16/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/16/03 - 04/23/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/23/03 - 04/30/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
04/30/03 - 05/08/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
05/08/03 - 05/14/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
05/14/03 - 05/21/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
05/21/03 - 05/28/03	< 0.1	0.3 +/- 0.1	< 0.5
05/28/03 - 06/04/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
06/04/03 - 06/11/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.4
06/11/03 - 06/18/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/18/03 - 06/25/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/25/03 - 07/03/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
07/03/03 - 07/09/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
07/09/03 - 07/16/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
07/16/03 - 07/23/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
07/23/03 - 07/30/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
07/30/03 - 08/06/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
08/06/03 - 08/13/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
08/13/03 - 08/20/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
08/20/03 - 08/27/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
08/27/03 - 09/03/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
09/03/03 - 09/10/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
09/10/03 - 09/17/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
09/17/03 - 09/24/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
09/24/03 - 10/02/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
10/02/03 - 10/08/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
10/08/03 - 10/15/03	0.1 +/- 0.1	2.5 +/- 0.1	< 0.3
10/15/03 - 10/22/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
10/22/03 - 10/29/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
10/29/03 - 11/05/03	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
11/05/03 11/12/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
11/12/03 - 11/19/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
11/19/03 - 11/25/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
11/25/03 - 12/03/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
12/03/03 - 12/09/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
12/09/03 - 12/16/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
12/16/03 - 12/24/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
12/24/03 - 12/31/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4

6.C.3

THREE MILE ISLAND AIR SAMPLING DATA

COLLINS SUBSTATION (8C2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Particulates (x 0.01 pCi/m^3) Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/02 - 01/09/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
01/09/03 - 01/15/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/15/03 - 01/22/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.5
01/22/03 - 01/29/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
01/29/03 - 02/05/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
02/05/03 - 02/12/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
02/12/03 - 02/20/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
02/20/03 - 02/26/03	< 0.1	1.6 +/- 0.1	< 0.4
02/26/03 - 03/05/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
03/05/03 - 03/12/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
03/12/03 - 03/19/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
03/19/03 - 03/25/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
03/25/03 - 04/04/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
04/04/03 - 04/09/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
04/09/03 - 04/16/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
04/16/03 - 04/23/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/23/03 - 04/30/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/30/03 - 05/08/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
05/08/03 - 05/14/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
05/14/03 - 05/21/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.5
05/21/03 - 05/28/03	< 0.1	0.3 +/- 0.1	< 0.3
05/28/03 - 06/04/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
06/04/03 - 06/11/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
06/11/03 - 06/18/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
06/18/03 - 06/25/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/25/03 - 07/03/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
07/03/03 - 07/09/03	*	*	< 0.3
07/09/03 - 07/16/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
07/16/03 - 07/23/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
07/23/03 - 07/30/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/30/03 - 08/06/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.7
08/06/03 - 08/13/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
08/13/03 - 08/20/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
08/20/03 - 08/27/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
08/27/03 - 09/03/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
09/03/03 - 09/10/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
09/10/03 - 09/17/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/17/03 - 09/24/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
09/24/03 - 10/02/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
10/02/03 - 10/08/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
10/08/03 - 10/15/03	0.1 +/- 0.1	2.6 +/- 0.1	< 0.4
10/15/03 - 10/22/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
10/22/03 - 10/29/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
10/29/03 - 11/05/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
11/05/03 11/12/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
11/12/03 - 11/19/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
11/19/03 - 11/25/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.5
11/25/03 - 12/03/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
12/03/03 - 12/09/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
12/09/03 - 12/16/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
12/16/03 - 12/24/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
12/24/03 - 12/31/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4

*No sample available

6.C.4
THREE MILE ISLAND AIR SAMPLING DATA
GOLDSBORO (12B2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Particulates (x 0.01 pCi/m^3) Beta	Iodine-131 (x 0.01 pCi/m^3
12/31/02 - 01/09/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
01/09/03 - 01/15/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
01/15/03 - 01/22/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
01/22/03 - 01/29/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
01/29/03 - 02/05/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
02/05/03 - 02/12/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
02/12/03 - 02/20/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
02/20/03 - 02/26/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
02/26/03 - 03/05/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
03/05/03 - 03/12/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
03/12/03 - 03/19/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
03/19/03 - 03/25/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
03/25/03 - 04/04/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
04/04/03 - 04/09/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
04/09/03 - 04/16/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
04/16/03 - 04/23/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
04/23/03 - 04/30/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
04/30/03 - 05/08/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
05/08/03 - 05/14/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.8
05/14/03 - 05/21/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.7
05/21/03 - 05/28/03	< 0.1	0.4 +/- 0.1	< 0.3
05/28/03 - 06/04/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/04/03 - 06/11/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
06/11/03 - 06/18/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/18/03 - 06/25/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/25/03 - 07/03/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
07/03/03 - 07/09/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
07/09/03 - 07/16/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
07/16/03 - 07/23/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
07/23/03 - 07/30/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
07/30/03 - 08/06/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.7
08/06/03 - 08/13/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
08/13/03 - 08/20/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
08/20/03 - 08/27/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.5
08/27/03 - 09/03/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
09/03/03 - 09/10/03	*	*	*
09/10/03 - 09/17/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.6
09/17/03 - 09/24/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
09/24/03 - 10/02/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
10/02/03 - 10/08/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
10/08/03 - 10/15/03	0.1 +/- 0.1	2.6 +/- 0.1	< 0.3
10/15/03 - 10/22/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
10/22/03 - 10/29/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
10/29/03 - 11/05/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
11/05/03 11/12/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
11/12/03 - 11/19/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
11/19/03 - 11/25/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
11/25/03 - 12/03/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
12/03/03 - 12/09/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
12/09/03 - 12/16/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
12/16/03 - 12/24/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
12/24/03 - 12/31/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4

* Sample invalid

6.C.5
CONTROL AIR SAMPLING DATA (15L3)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/30/02 - 01/06/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/06/03 - 01/13/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
01/13/03 - 01/22/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
01/22/03 - 01/27/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
01/27/03 - 02/03/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
02/03/03 - 02/10/03	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
02/10/03 - 02/18/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
02/18/03 - 02/24/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
02/24/03 - 03/03/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.2
03/03/03 - 03/10/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
03/10/03 - 03/17/03	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
03/17/03 - 03/24/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
03/24/03 - 03/31/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
03/31/03 - 04/07/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
04/07/03 - 04/14/03	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/14/03 - 04/21/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.2
04/21/03 - 04/28/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
04/28/03 - 05/05/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.6
05/05/03 - 05/12/03	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
05/12/03 - 05/19/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.4
05/19/03 - 05/27/03	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
05/27/03 - 06/02/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/02/03 - 06/09/03	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
06/09/03 - 06/16/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
06/16/03 - 06/23/03	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
06/23/03 - 06/30/03	0.2 +/- 0.1	2.4 +/- 0.1	< 0.3
06/30/03 - 07/07/03	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
07/07/03 - 07/14/03	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
07/14/03 - 07/21/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
07/21/03 - 07/28/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
07/28/03 - 08/04/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
08/04/03 - 08/11/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
08/11/03 - 08/18/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
08/18/03 - 08/25/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
08/25/03 - 09/02/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
09/02/03 - 09/08/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/08/03 - 09/15/03	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
09/15/03 - 09/22/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
09/22/03 - 09/29/03	0.1 +/- 0.1	2.3 +/- 0.1	< 0.2
09/29/03 - 10/06/03	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
10/06/03 - 10/14/03	0.1 +/- 0.1	2.9 +/- 0.1	< 0.3
10/14/03 - 10/20/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
10/20/03 - 10/27/03	+/- *	+/- *	< *
10/27/03 - 11/03/03	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
11/03/03 - 11/10/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
11/10/03 - 11/17/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
11/17/03 - 11/24/03	0.1 +/- 0.1	2.5 +/- 0.1	< 0.2
11/24/03 - 12/01/03	0.1 +/- 0.1	2.0 +/- 0.1	< 0.2
12/01/03 - 12/08/03	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
12/08/03 - 12/15/03	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
12/15/03 - 12/22/03	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
12/22/03 - 12/29/03	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3

6.D

THREE MILE ISLAND AIR PARTICULATE COMPOSITES
(fCi/m3)

Station Number	Location	Collection Period	Cs-134	Cs-137
1C2	Mill St. Substation	12/31/2002 - 4/4/2003	< 0.1	< 0.1
		4/4/2003 - 7/3/2003	< 0.1	< 0.1
		7/3/2003 - 10/2/2003	< 0.1	< 0.1
		10/2/2003 - 12/30/2003	< 0.1	< 0.1
5A2	Visitors Center	12/31/2002 - 4/4/2003	< 0.1	< 0.1
		4/4/2003 - 7/3/2003	< 0.1	< 0.1
		7/3/2003 - 10/2/2003	< 0.1	< 0.1
		10/2/2003 - 12/30/2003	< 0.1	< 0.1
8C2	Collins Substation	12/31/2002 - 4/4/2003	< 0.1	< 0.2
		4/4/2003 - 7/3/2003	< 0.1	< 0.1
		7/3/2003 - 10/2/2003	< 0.1	< 0.1
		10/2/2003 - 12/30/2003	< 0.1	< 0.1
12B2	Goldsboro	12/31/2002 - 4/4/2003	< 0.1	< 0.1
		4/4/2003 - 7/3/2003	< 0.1	< 0.1
		7/3/2003 - 10/2/2003	< 0.1	< 0.1
		10/2/2003 - 12/30/2003	< 0.1	< 0.1
15L3	Harrisburg	12/30/2002 - 3/31/2003	< 0.1	< 0.1
		3/31/2003 - 6/30/2003	< 0.1	< 0.1
		6/30/2003 - 9/29/2003	< 0.1	< 0.1
		9/29/2003 - 12/29/2003	< 0.1	< 0.1

6.E.1

THREE MILE ISLAND WATER SAMPLING DATA
COLUMBIA FINISHED DOWNSTREAM (7L1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/29/03	< 2	< 170	< 1	< 3	< 1	< 1	< 2	< 2 / < 2	< 2	< 1	< 1	< 5
2/26/03	2 +/- 1	< 180	< 1	< 3	< 2	< 1	< 3	< 2 / < 2	< 2	< 1	< 2	< 6
4/02/03	< 2	< 180	< 2	< 3	< 2	< 2	< 4	< 3 / < 2	< 3	< 2	< 2	< 8
4/29/03	1 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 2	< 2	< 1	< 2	< 4
6/03/03	2 +/- 1	< 180	< 2	< 4	< 2	< 2	< 5	< 4 / < 3	< 4	< 2	< 2	< 11
7/01/03	2 +/- 1	< 190	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 3	< 1	< 1	< 6
7/29/03	2 +/- 1	< 190	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 2	< 4
9/02/03	3 +/- 1	232 +/- 118	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 6
9/30/03	2 +/- 1	223 +/- 114	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 4
10/28/03	2 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 6
12/02/03	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 6
12/30/03	1 +/- 1	< 170	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 6

STEELTON FINISHED UPSTREAM (15J1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/29/03	1 +/- 1	< 170	< 1	< 3	< 1	< 1	< 2	< 2 / < 2	< 2	< 1	< 1	< 5
2/26/03	1 +/- 1	< 180	< 1	< 2	< 1	< 1	< 3	< 2 / < 1	< 2	< 2	< 1	< 5
4/02/03	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
4/29/03	1 +/- 1	< 180	< 1	< 2	< 1	< 2	< 2	< 2 / < 1	< 2	< 1	< 1	< 4
6/03/03	1 +/- 1	< 180	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
7/01/03	< 2	< 190	< 1	< 3	< 1	< 2	< 2	< 2 / < 2	< 3	< 1	< 2	< 6
7/29/03	2 +/- 1	< 190	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 2	< 4
9/02/03	1 +/- 1	< 190	< 2	< 4	< 2	< 2	< 4	< 4 / < 2	< 4	< 2	< 2	< 10
9/30/03	2 +/- 1	< 180	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 1	< 6
10/28/03	< 2	< 190	< 2	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 6
12/02/03	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 6
12/30/03	< 2	< 170	< 1	< 3	< 1	< 1	< 3	< 2 / < 2	< 3	< 1	< 2	< 6

6.F

THREE MILE ISLAND MILK SAMPLING DATA
(pCi/L)

Station Number	Collection Date	I-131	Cs-134	Cs-137	Ba-140	K-40
07B1	1/15/03	< 3	< 2	< 3	< 8	1330 +/- 59
	2/12/03	< 2	< 2	< 2	< 6	1400 +/- 53
	3/05/03	< 2	< 1	< 2	< 4	1340 +/- 36
	4/02/03	< 2	< 2	< 2	< 5	1350 +/- 39
	5/14/03	< 2	< 2	< 2	< 5	1420 +/- 42
	6/11/03	< 2	< 2	< 2	< 7	1340 +/- 58
	7/09/03	< 2	< 2	< 2	< 5	1270 +/- 40
	8/06/03	< 2	< 2	< 2	< 6	1210 +/- 42
	9/03/03	< 3	< 3	< 3	< 9	1080 +/- 54
	10/01/03	< 3	< 2	< 3	< 8	1270 +/- 52
	11/12/03	< 2	< 1	< 2	< 4	1460 +/- 37
	12/10/03	< 2	< 2	< 2	< 7	1550 +/- 44
10K1	1/15/03	< 2	< 2	< 2	< 6	1430 +/- 55
	2/12/03	< 2	< 2	< 3	< 7	1470 +/- 59
	3/05/03	< 2	< 2	< 2	< 5	1440 +/- 42
	4/02/03	< 2	< 1	< 2	< 4	1460 +/- 37
	5/14/03	< 2	< 2	< 3	< 7	1270 +/- 54
	6/11/03	< 3	< 2	< 3	< 8	1300 +/- 65
	7/09/03	< 2	< 2	< 2	< 5	1310 +/- 40
	8/06/03	< 2	< 2	< 2	< 6	1350 +/- 53
	9/03/03	< 2	< 2	< 2	< 7	1380 +/- 57
	10/01/03	< 2	< 2	< 3	< 7	1440 +/- 60
	11/12/03	< 2	< 2	< 2	< 6	1390 +/- 53
	12/09/03	< 2	< 2	< 2	< 7	1350 +/- 57

6.G

THREE MILE ISLAND FISH, PRODUCE & SEDIMENT DATA
(pCi/kg)

Isotope	Fish* 6/13/2003	Control Sediment** 6/13/2003	Sediment** 6/13/2003	Control Produce* 8/14/2003	Produce* 8/20/2003
I-131	< 51	< 104	< 151	< 4	< 4
Mn-54	< 5	< 4	< 7	< 3	< 3
Fe-59	< 15	< 14	< 24	< 6	< 7
Co-58	< 5	< 5	< 8	< 3	< 3
Co-60	< 5	< 4	< 7	< 3	< 3
Zn-65	< 12	< 10	< 17	< 7	< 7
Zr-Nb-95	< 9/< 7	< 11/< 10	< 17/< 16	< 5/< 3	< 4/< 3
Cs-134	< 4	< 4	< 6	< 3	< 3
Cs-137	< 4	43 +/- 4	95 +/- 6	< 3	< 3
Ba-140	< 64	< 103	< 158	< 11	< 11

* Wet Weight
** Dry Weight

7.A

Quehanna

THERMOLUMINESCENCE DOSIMETRY (TLD) DATA

(mR/std. mo.)

Station Number	Location	BRP** 1/8/03 to 4/3/03	ICN* 4/3/03 to 7/9/03	ICN* 7/9/03 to 9/30/03	ICN* 10/1/03 to 1/7/04	Annual Dose
QOQT01	Tornado Field	4.2 +/- 0.2	1.91 +/- 0.21	1.8 +/- 0.96	2.2 +/- 0.6	30.2 +/- 3.5
QOQT02	Griest Residence	4.3 +/- 0.3	2.57 +/- 0.16	2.09 0.51	2.2 +/- 0.5	33.6 +/- 2.4
QOQT03	Duck Pond	5.0 +/- 0.8	2.23 +/- 0.42	2.83 +/- 0.74	2.9 +/- 0.1	38.8 +/- 3.5
QOQT04	Reservoir	4.3 +/- 0.5	1.66 +/- 0.32	2.57 +/- 0.64	2.7 +/- 0.2	33.6 +/- 2.7
QOQT05	Boot Camp	3.9 +/- 0.1	1.80 +/- 0.08	4.28 +/- 1.16	2.6 +/- 0.3	37.8 +/- 3.6
					Annual Average:	34.8

7.B.1
Permagrain Inc. Facility Air Sampling Data
Tornado Field
Q-1
x 10^{-2} pCi/m^3

Collection Period	Gross Alpha	Gross Beta
01/02/03 - 01/09/03	0.1 +/ 0.1	1.7 +/ 0.1
01/09/03 - 01/15/03	0.1 +/ 0.1	1.0 +/ 0.1
01/15/03 - 01/22/03	0.1 +/ 0.1	2.2 +/ 0.1
01/22/03 - 01/29/03	0.1 +/ 0.1	2.0 +/ 0.1
01/29/03 - 02/05/03	0.1 +/ 0.1	2.0 +/ 0.1
02/05/03 - 02/12/03	0.1 +/ 0.1	1.8 +/ 0.1
02/12/03 - 02/19/03	0.1 +/ 0.1	1.5 +/ 0.1
02/19/03 - 02/26/03	0.1 +/ 0.1	1.9 +/ 0.1
02/26/03 - 03/05/03	0.1 +/ 0.1	2.2 +/ 0.1
03/05/03 - 03/11/03	0.1 +/ 0.1	2.3 +/ 0.1
03/11/03 - 03/19/03	0.1 +/ 0.1	2.3 +/ 0.1
03/19/03 - 03/25/03	0.1 +/ 0.1	1.3 +/ 0.1
03/25/03 - 04/03/03	0.1 +/ 0.1	1.7 +/ 0.1
04/03/03 - 04/09/03	0.1 +/ 0.1	1.1 +/ 0.1
04/09/03 - 04/16/03	0.1 +/ 0.1	1.8 +/ 0.1
04/16/03 - 04/23/03	0.1 +/ 0.1	1.4 +/ 0.1
04/23/03 - 04/30/03	0.1 +/ 0.1	1.5 +/ 0.1
04/30/03 - 05/08/03	0.1 +/ 0.1	1.3 +/ 0.1
05/08/03 - 05/14/03	0.2 +/ 0.1	3.2 +/ 0.3
05/14/03 - 05/21/03	0.1 +/ 0.1	1.0 +/ 0.1
05/21/03 - 05/28/03	0.1 +/ 0.1	0.8 +/ 0.1
05/28/03 - 06/05/03	0.1 +/ 0.1	0.8 +/ 0.1
06/05/03 - 06/11/03	0.1 +/ 0.1	1.0 +/ 0.1
06/11/03 - 06/17/03	0.1 +/ 0.1	1.4 +/ 0.1
06/17/03 - 06/25/03	0.1 +/ 0.1	1.2 +/ 0.1
06/25/03 - 07/02/03	0.1 +/ 0.1	2.1 +/ 0.1
07/02/03 - 07/09/03	0.1 +/ 0.1	2.0 +/ 0.1
07/09/03 - 07/16/03	0.1 +/ 0.1	1.4 +/ 0.1
07/16/03 - 07/23/03	0.1 +/ 0.1	1.3 +/ 0.1
07/23/03 - 07/30/03	0.1 +/ 0.1	1.6 +/ 0.1
07/30/03 - 08/06/03	0.1 +/ 0.1	1.3 +/ 0.1
08/06/03 - 08/13/03	0.1 +/ 0.1	1.6 +/ 0.1
08/13/03 - 08/20/03	0.1 +/ 0.1	1.9 +/ 0.1
08/20/03 - 08/27/03	0.1 +/ 0.1	2.4 +/ 0.1
08/27/03 - 09/03/03	0.1 +/ 0.1	1.4 +/ 0.1
09/03/03 - 09/10/03	0.1 +/ 0.1	1.5 +/ 0.1
09/10/03 - 09/17/03	0.1 +/ 0.1	1.7 +/ 0.1
09/17/03 - 09/23/03	0.1 +/ 0.1	1.8 +/ 0.1
09/23/03 - 10/01/03	0.1 +/ 0.1	1.9 +/ 0.1
10/01/03 - 10/08/03	0.1 +/ 0.1	1.4 +/ 0.1
10/08/03 - 10/15/03	0.2 +/ 0.1	3.2 +/ 0.1
10/15/03 - 10/22/03	0.1 +/ 0.1	2.3 +/ 0.1
10/22/03 - 10/29/03	0.1 +/ 0.1	1.6 +/ 0.1
10/29/03 - 11/05/03	0.1 +/ 0.1	2.6 +/ 0.1
11/05/03 - 11/13/03	0.1 +/ 0.1	2.1 +/ 0.1
11/13/03 - 11/19/03	0.1 +/ 0.1	2.0 +/ 0.1
11/19/03 - 11/26/03	0.1 +/ 0.1	2.4 +/ 0.1
11/26/03 - 12/03/03	0.1 +/ 0.1	1.9 +/ 0.1
12/03/03 - 12/10/03	0.1 +/ 0.1	1.9 +/ 0.1
12/10/03 - 12/17/03	0.1 +/ 0.1	1.6 +/ 0.1
12/17/03 - 12/23/03	0.1 +/ 0.1	3.1 +/ 0.1
12/23/03 - 12/31/03	0.1 +/ 0.1	1.6 +/ 0.1

7.B.2
Griest Residence
Q-2
x 10^{-2} pCi/m^3

Collection Period	Gross Alpha	Gross Beta
01/02/03 - 01/09/03	0.1 +/- 0.1	1.8 +/- 0.1
01/09/03 - 01/15/03	0.1 +/- 0.1	1.1 +/- 0.1
01/15/03 - 01/22/03	0.1 +/- 0.1	2.4 +/- 0.1
01/22/03 - 01/29/03	0.1 +/- 0.1	2.0 +/- 0.1
01/29/03 - 02/05/03	0.1 +/- 0.1	2.2 +/- 0.1
02/05/03 - 02/12/03	0.1 +/- 0.1	1.4 +/- 0.1
02/12/03 - 02/19/03	0.1 +/- 0.1	1.5 +/- 0.1
02/19/03 - 02/26/03	0.1 +/- 0.1	1.8 +/- 0.1
02/26/03 - 03/05/03	0.1 +/- 0.1	2.3 +/- 0.1
03/05/03 - 03/11/03	0.1 +/- 0.1	2.5 +/- 0.1
03/11/03 - 03/19/03	0.1 +/- 0.1	2.4 +/- 0.1
03/19/03 - 03/25/03	0.1 +/- 0.1	0.9 +/- 0.1
03/25/03 - 04/03/03	0.1 +/- 0.1	1.6 +/- 0.1
04/03/03 - 04/09/03	0.1 +/- 0.1	1.2 +/- 0.1
04/09/03 - 04/16/03	0.1 +/- 0.1	1.8 +/- 0.1
04/16/03 - 04/23/03	0.1 +/- 0.1	1.7 +/- 0.1
04/23/03 - 04/30/03	0.1 +/- 0.1	1.7 +/- 0.1
04/30/03 - 05/08/03	0.1 +/- 0.1	1.5 +/- 0.1
05/08/03 - 05/14/03	0.2 +/- 0.1	3.5 +/- 0.3
05/14/03 - 05/21/03	0.1 +/- 0.1	1.1 +/- 0.1
05/21/03 - 05/28/03	0.1 +/- 0.1	0.8 +/- 0.1
05/28/03 - 06/05/03	0.4 +/- 0.1	1.3 +/- 0.1
06/05/03 - 06/11/03	0.1 +/- 0.1	1.1 +/- 0.1
06/11/03 - 06/17/03	0.1 +/- 0.1	1.6 +/- 0.1
06/17/03 - 06/25/03	0.1 +/- 0.1	1.3 +/- 0.1
06/25/03 - 07/02/03	0.1 +/- 0.1	2.1 +/- 0.1
07/02/03 - 07/09/03	0.1 +/- 0.1	2.3 +/- 0.1
07/09/03 - 07/16/03	0.1 +/- 0.1	1.5 +/- 0.1
07/16/03 - 07/23/03	0.1 +/- 0.1	1.4 +/- 0.1
07/23/03 - 07/30/03	0.1 +/- 0.1	1.6 +/- 0.1
07/30/03 - 08/06/03	0.1 +/- 0.1	1.4 +/- 0.1
08/06/03 - 08/13/03	0.1 +/- 0.1	1.7 +/- 0.1
08/13/03 - 08/20/03	0.1 +/- 0.1	2.1 +/- 0.1
08/20/03 - 08/27/03	0.1 +/- 0.1	2.7 +/- 0.1
08/27/03 - 09/03/03	0.1 +/- 0.1	1.6 +/- 0.1
09/03/03 - 09/10/03	0.1 +/- 0.1	1.7 +/- 0.1
09/10/03 - 09/17/03	0.1 +/- 0.1	1.8 +/- 0.1
09/17/03 - 09/23/03	0.1 +/- 0.1	2.0 +/- 0.1
09/23/03 - 10/01/03	0.1 +/- 0.1	2.6 +/- 0.1
10/01/03 - 10/08/03	0.1 +/- 0.1	1.5 +/- 0.1
10/08/03 - 10/15/03	0.2 +/- 0.1	3.6 +/- 0.1
10/15/03 - 10/22/03	0.1 +/- 0.1	2.4 +/- 0.1
10/22/03 - 10/29/03	0.1 +/- 0.1	1.7 +/- 0.1
10/29/03 - 11/05/03	0.1 +/- 0.1	2.8 +/- 0.1
11/05/03 - 11/13/03	0.1 +/- 0.1	2.2 +/- 0.1
11/13/03 - 11/19/03	0.1 +/- 0.1	2.5 +/- 0.1
11/19/03 - 11/26/03	0.1 +/- 0.1	2.6 +/- 0.1
11/26/03 - 12/03/03	0.1 +/- 0.1	2.3 +/- 0.1
12/03/03 - 12/10/03	0.1 +/- 0.1	1.9 +/- 0.1
12/10/03 - 12/17/03	0.1 +/- 0.1	1.8 +/- 0.1
12/17/03 - 12/23/03	0.1 +/- 0.1	3.3 +/- 0.1
12/23/03 - 12/31/03	0.1 +/- 0.1	1.8 +/- 0.1

7.B.3
Duck Pond
Q-3
x 10^{-2} pCi/m^3

Collection Period	Gross Alpha	Gross Beta	
01/02/03 - 01/09/03	0.1 +/- 0.1	1.8 +/- 0.1	
01/09/03 - 01/15/03	0.1 +/- 0.1	1.4 +/- 0.1	
01/15/03 - 01/22/03	0.1 +/- 0.1	2.6 +/- 0.1	
01/22/03 - 01/29/03	0.1 +/- 0.1	2.4 +/- 0.1	
01/29/03 - 02/05/03	*	*	No sample available
02/05/03 - 02/12/03	*	*	No sample available
02/12/03 - 02/19/03	0.1 +/- 0.1	1.5 +/- 0.1	
02/19/03 - 02/26/03	0.1 +/- 0.1	1.3 +/- 0.1	
02/26/03 - 03/05/03	0.1 +/- 0.1	2.2 +/- 0.1	
03/05/03 - 03/11/03	0.1 +/- 0.1	2.3 +/- 0.1	
03/11/03 - 03/19/03	0.1 +/- 0.1	2.4 +/- 0.1	
03/19/03 - 03/25/03	0.1 +/- 0.1	1.2 +/- 0.1	
03/25/03 - 04/03/03	0.1 +/- 0.1	1.5 +/- 0.1	
04/03/03 - 04/09/03	0.1 +/- 0.1	1.1 +/- 0.1	
04/09/03 - 04/16/03	0.1 +/- 0.1	1.7 +/- 0.1	
04/16/03 - 04/23/03	0.1 +/- 0.1	1.5 +/- 0.1	
04/23/03 - 04/30/03	0.1 +/- 0.1	1.6 +/- 0.1	
04/30/03 - 05/08/03	0.1 +/- 0.1	1.4 +/- 0.1	
05/08/03 - 05/14/03	0.2 +/- 0.1	3.4 +/- 0.3	
05/14/03 - 05/21/03	0.1 +/- 0.1	1.0 +/- 0.1	
05/21/03 - 05/28/03	0.1 +/- 0.1	0.8 +/- 0.1	
05/28/03 - 06/05/03	0.4 +/- 0.1	1.1 +/- 0.1	
06/05/03 - 06/11/03	0.1 +/- 0.1	1.0 +/- 0.1	
06/11/03 - 06/17/03	0.1 +/- 0.1	1.4 +/- 0.1	
06/17/03 - 06/25/03	0.1 +/- 0.1	1.2 +/- 0.1	
06/25/03 - 07/02/03	0.1 +/- 0.1	2.0 +/- 0.1	
07/02/03 - 07/09/03	0.1 +/- 0.1	1.9 +/- 0.1	
07/09/03 - 07/16/03	0.1 +/- 0.1	1.3 +/- 0.1	
07/16/03 - 07/23/03	0.1 +/- 0.1	1.3 +/- 0.1	
07/23/03 - 07/30/03	0.1 +/- 0.1	1.2 +/- 0.1	
07/30/03 - 08/06/03	0.1 +/- 0.1	1.3 +/- 0.1	
08/06/03 - 08/13/03	0.1 +/- 0.1	1.5 +/- 0.1	
08/13/03 - 08/20/03	0.1 +/- 0.1	1.9 +/- 0.1	
08/20/03 - 08/27/03	0.1 +/- 0.1	2.3 +/- 0.1	
08/27/03 - 09/03/03	0.1 +/- 0.1	1.4 +/- 0.1	
09/03/03 - 09/10/03	0.1 +/- 0.1	1.5 +/- 0.1	
09/10/03 - 09/17/03	0.1 +/- 0.1	1.6 +/- 0.1	
09/17/03 - 09/23/03	0.1 +/- 0.1	1.8 +/- 0.1	
09/23/03 - 10/01/03	0.1 +/- 0.1	1.8 +/- 0.1	
10/01/03 - 10/08/03	0.1 +/- 0.1	1.3 +/- 0.1	
10/08/03 - 10/15/03	0.2 +/- 0.1	3.4 +/- 0.1	
10/15/03 - 10/22/03	0.1 +/- 0.1	2.2 +/- 0.1	
10/22/03 - 10/29/03	0.1 +/- 0.1	1.5 +/- 0.1	
10/29/03 - 11/05/03	0.1 +/- 0.1	2.7 +/- 0.1	
11/05/03 - 11/13/03	0.1 +/- 0.1	2.0 +/- 0.1	
11/13/03 - 11/19/03	0.1 +/- 0.1	2.1 +/- 0.1	
11/19/03 - 11/26/03	0.1 +/- 0.1	2.5 +/- 0.1	
11/26/03 - 12/03/03	0.1 +/- 0.1	2.0 +/- 0.1	
12/03/03 - 12/10/03	0.1 +/- 0.1	1.6 +/- 0.1	
12/10/03 - 12/17/03	0.1 +/- 0.1	1.6 +/- 0.1	
12/17/03 - 12/23/03	0.1 +/- 0.1	2.9 +/- 0.1	
12/23/03 - 12/31/03	0.1 +/- 0.1	1.6 +/- 0.1	

7.B.4
Reservoir
Q-4
x 10^{-2} pCi/m^3

Collection Period	Gross Alpha	Gross Beta	
01/02/03 - 01/09/03	0.1 +/- 0.1	1.7 +/- 0.1	
01/09/03 - 01/15/03	0.1 +/- 0.1	1.1 +/- 0.1	
01/15/03 - 01/22/03	0.1 +/- 0.1	2.2 +/- 0.1	
01/22/03 - 01/29/03	0.1 +/- 0.1	1.8 +/- 0.1	
01/29/03 - 02/05/03	0.1 +/- 0.1	2.2 +/- 0.1	
02/05/03 - 02/12/03	0.1 +/- 0.1	1.3 +/- 0.1	
02/12/03 - 02/19/03	0.1 +/- 0.1	1.5 +/- 0.1	
02/19/03 - 02/26/03	0.1 +/- 0.1	1.3 +/- 0.1	
02/26/03 - 03/05/03	0.1 +/- 0.1	2.3 +/- 0.1	
03/05/03 - 03/11/03	0.1 +/- 0.1	2.4 +/- 0.1	
03/11/03 - 03/19/03	0.1 +/- 0.1	2.4 +/- 0.1	
03/19/03 - 03/25/03	*	*	No sample available
03/25/03 - 04/03/03	0.1 +/- 0.1	1.5 +/- 0.1	
04/03/03 - 04/09/03	0.1 +/- 0.1	1.1 +/- 0.1	
04/09/03 - 04/16/03	0.1 +/- 0.1	1.7 +/- 0.1	
04/16/03 - 04/23/03	0.1 +/- 0.1	1.6 +/- 0.1	
04/23/03 - 04/30/03	0.1 +/- 0.1	1.8 +/- 0.1	
04/30/03 - 05/08/03	0.1 +/- 0.1	1.3 +/- 0.1	
05/08/03 - 05/14/03	0.2 +/- 0.1	3.4 +/- 0.3	
05/14/03 - 05/21/03	0.1 +/- 0.1	1.0 +/- 0.1	
05/21/03 - 05/28/03	0.1 +/- 0.1	0.8 +/- 0.1	
05/28/03 - 06/05/03	0.4 +/- 0.1	1.1 +/- 0.1	
06/05/03 - 06/11/03	0.1 +/- 0.1	1.1 +/- 0.1	
06/11/03 - 06/17/03	0.1 +/- 0.1	1.5 +/- 0.1	
06/17/03 - 06/25/03	0.1 +/- 0.1	1.2 +/- 0.1	
06/25/03 - 07/02/03	0.1 +/- 0.1	2.1 +/- 0.1	
07/02/03 - 07/09/03	0.1 +/- 0.1	2.1 +/- 0.1	
07/09/03 - 07/16/03	0.1 +/- 0.1	1.3 +/- 0.1	
07/16/03 - 07/23/03	0.1 +/- 0.1	1.2 +/- 0.1	
07/23/03 - 07/30/03	0.1 +/- 0.1	1.6 +/- 0.1	
07/30/03 - 08/06/03	0.1 +/- 0.1	1.2 +/- 0.1	
08/06/03 - 08/13/03	0.1 +/- 0.1	1.4 +/- 0.1	
08/13/03 - 08/20/03	0.1 +/- 0.1	1.9 +/- 0.1	
08/20/03 - 08/27/03	0.1 +/- 0.1	2.4 +/- 0.1	
08/27/03 - 09/03/03	0.1 +/- 0.1	1.4 +/- 0.1	
09/03/03 - 09/10/03	0.1 +/- 0.1	1.6 +/- 0.1	
09/10/03 - 09/17/03	0.1 +/- 0.1	1.6 +/- 0.1	
09/17/03 - 09/23/03	0.1 +/- 0.1	1.9 +/- 0.1	
09/23/03 - 10/01/03	0.1 +/- 0.1	1.8 +/- 0.1	
10/01/03 - 10/08/03	0.1 +/- 0.1	1.4 +/- 0.1	
10/08/03 - 10/15/03	0.2 +/- 0.1	3.2 +/- 0.1	
10/15/03 - 10/22/03	0.1 +/- 0.1	2.1 +/- 0.1	
10/22/03 - 10/29/03	0.1 +/- 0.1	1.5 +/- 0.1	
10/29/03 - 11/05/03	0.1 +/- 0.1	2.8 +/- 0.1	
11/05/03 - 11/13/03	0.1 +/- 0.1	2.0 +/- 0.1	
11/13/03 - 11/19/03	0.1 +/- 0.1	2.0 +/- 0.1	
11/19/03 - 11/26/03	0.1 +/- 0.1	2.4 +/- 0.1	
11/26/03 - 12/03/03	0.1 +/- 0.1	2.1 +/- 0.1	
12/03/03 - 12/10/03	0.1 +/- 0.1	1.7 +/- 0.1	
12/10/03 - 12/17/03	0.1 +/- 0.1	1.5 +/- 0.1	
12/17/03 - 12/23/03	0.1 +/- 0.1	3.1 +/- 0.1	
12/23/03 - 12/31/03	0.1 +/- 0.1	1.4 +/- 0.1	

7.B.5
Boot Camp
Q-5
x 10^{-2} pCi/m^3

Collection Period	Gross Alpha	Gross Beta	Quarterly Composite x 10^{-4} pCi/m^3 Co-60	Sr-90
01/02/03 - 01/09/03	0.1 +/- 0.1	1.8 +/- 0.1		
01/09/03 - 01/15/03	0.1 +/- 0.1	1.0 +/- 0.1		
01/15/03 - 01/22/03	0.1 +/- 0.1	2.0 +/- 0.1		
01/22/03 - 01/29/03	0.1 +/- 0.1	1.2 +/- 0.1		
01/29/03 - 02/05/03	0.1 +/- 0.1	2.2 +/- 0.1		
02/05/03 - 02/12/03	0.1 +/- 0.1	1.5 +/- 0.1		
02/12/03 - 02/19/03	0.1 +/- 0.1	1.3 +/- 0.1		
02/19/03 - 02/26/03	0.1 +/- 0.1	1.9 +/- 0.1		
02/26/03 - 03/05/03	0.1 +/- 0.1	2.3 +/- 0.1		
03/05/03 - 03/11/03	0.1 +/- 0.1	2.5 +/- 0.1		
03/11/03 - 03/19/03	0.1 +/- 0.1	2.3 +/- 0.1		
03/19/03 - 03/25/03	0.1 +/- 0.1	1.3 +/- 0.1		
03/25/03 - 04/03/03	0.1 +/- 0.1	1.6 +/- 0.1		
04/03/03 - 04/09/03	0.1 +/- 0.1	0.8 +/- 0.1		
04/09/03 - 04/16/03	0.1 +/- 0.1	1.6 +/- 0.1		
04/16/03 - 04/23/03	0.1 +/- 0.1	1.5 +/- 0.1		
04/23/03 - 04/30/03	0.1 +/- 0.1	1.7 +/- 0.1		
04/30/03 - 05/08/03	0.1 +/- 0.1	1.4 +/- 0.1		
05/08/03 - 05/14/03	0.1 +/- 0.1	4.1 +/- 0.3		
05/14/03 - 05/21/03	0.1 +/- 0.1	1.0 +/- 0.1		
05/21/03 - 05/28/03	0.1 +/- 0.1	0.8 +/- 0.1		
05/28/03 - 06/05/03	0.3 +/- 0.1	1.0 +/- 0.1		
06/05/03 - 06/11/03	0.1 +/- 0.1	1.1 +/- 0.1		
06/11/03 - 06/17/03	0.1 +/- 0.1	1.7 +/- 0.1		
06/17/03 - 06/25/03	0.1 +/- 0.1	1.5 +/- 0.1		
06/25/03 - 07/02/03	0.1 +/- 0.1	2.1 +/- 0.1		
07/02/03 - 07/09/03	0.1 +/- 0.1	2.1 +/- 0.1		
07/09/03 - 07/16/03	0.1 +/- 0.1	1.3 +/- 0.1		
07/16/03 - 07/23/03	0.1 +/- 0.1	1.4 +/- 0.1		
07/23/03 - 07/30/03	0.1 +/- 0.1	1.7 +/- 0.1		
07/30/03 - 08/06/03	0.1 +/- 0.1	1.5 +/- 0.1		
08/06/03 - 08/13/03	0.1 +/- 0.1	1.8 +/- 0.1		
08/13/03 - 08/20/03	0.1 +/- 0.1	2.1 +/- 0.1		
08/20/03 - 08/27/03	0.1 +/- 0.1	2.6 +/- 0.1		
08/27/03 - 09/03/03	0.1 +/- 0.1	1.5 +/- 0.1		
09/03/03 - 09/10/03	*	*	No sample available	
09/10/03 - 09/17/03	0.1 +/- 0.1	1.8 +/- 0.1		
09/17/03 - 09/23/03	0.1 +/- 0.1	1.9 +/- 0.1		
09/23/03 - 10/01/03	0.1 +/- 0.1	1.9 +/- 0.1		
10/01/03 - 10/08/03	0.1 +/- 0.1	1.5 +/- 0.1		
10/08/03 - 10/15/03	0.2 +/- 0.1	3.8 +/- 0.1		
10/15/03 - 10/22/03	0.1 +/- 0.1	2.4 +/- 0.1		
10/22/03 - 10/29/03	0.1 +/- 0.1	1.8 +/- 0.1		
10/29/03 - 11/05/03	*	*	No sample available	
11/05/03 - 11/13/03	0.1 +/- 0.1	2.0 +/- 0.1		
11/13/03 - 11/19/03	0.1 +/- 0.1	1.9 +/- 0.1		
11/19/03 - 11/26/03	0.1 +/- 0.1	2.8 +/- 0.1		
11/26/03 - 12/03/03	0.1 +/- 0.1	2.0 +/- 0.1		
12/03/03 - 12/10/03	0.1 +/- 0.1	1.8 +/- 0.1		
12/10/03 - 12/17/03	0.1 +/- 0.1	1.7 +/- 0.1		
12/17/03 - 12/23/03	0.1 +/- 0.1	3.3 +/- 0.1		
12/23/03 - 12/31/03	0.1 +/- 0.1	1.3 +/- 0.1		

7.C

Moly Corp

THERMOLUMINESCENCE DOSIMETRY (TLD) DATA

(mR/std. mo.)

Station Number	Location	BRP** 1/7/03 to 4/9/03	ICN* 4/17/00 to 7/11/00	ICN* 7/11/00 to 10/2/03	ICN* 10/2/03 to 1/8/04	Annual Dose
MOQT01	Bridge Pole	4.9 +/- 0.2	3.60 +/- 0.09	3.09 +/- 0.24	3.8 +/- 0.7	46.1 +/- 2.4
MOQT02	Plant Fence	11.4 +/- 0.5	10.03 +/- 0.35	11.8 +/- 4.15	7.9 +/- 4.3	123.4 +/- 18.0
MOQT03	Hickory & Ellis	4.8 +/- 0.6	**missing**	8.05 +/- 0.39	3.2 +/- 0.3	48.2 +/- 2.3
MOQT04	Caldwell/Jessop & Addison	4.8 +/- 0.6	3.47 +/- 0.30	2.69 +/- 0.08	3.0 +/- 0.1	42.0 +/- 2.1
MOQT05	Baird & Wilmington	4.6 +/- 0.3	3.23 +/- 0.25	4.53 +/- 0.50	2.8 +/- 0.1	45.5 +/- 1.9
MOQT06	Berthel & Jefferson	4.8 +/- 0.6	2.94 +/- 0.13	2.6 +/- 0.20	3.0 +/- 0.1	39.9 +/- 2.0
MOQT07	Kerns Hill Rd. & Weirich	5.3 +/- 0.5	3.82 +/- 0.22	3.57 +/- 0.27	3.3 +/- 0.3	47.9 +/- 2.1
MOQT08	Lacock & Weirich	5.2 +/- 0.7	3.44 +/- 0.17	3.69 +/- 0.10	3.4 +/- 0.4	47.2 +/- 2.5
MOQT09	The Road & Weirich	5.2 +/- 0.2	3.55 +/- 0.10	2.99 +/- 0.10	3.5 +/- 0.5	45.7 +/- 1.7
MOQT10	The Road & Jack St.	4.8 +/- 0.5	3.46 +/- 0.04	3.06 +/- 0.21	3.3 +/- 0.4	44.0 +/- 2.1
MOQT11	The Circle Road	5.2 +/- 0.5	3.43 +/- 0.24	3.02 +/- 0.13	3.4 +/- 0.4	45.0 +/- 2.1
MOQT12	Ellwood Park Road Dead End	5.4 +/- 0.5	3.92 +/- 0.09	3.84 +/- 0.43	3.5 +/- 0.6	49.9 +/- 2.6

*Control corrected-net exposure.

**Not corrected for control-gross exposure.

Annual Average: 52.1

7.E

Waltz Mills Air Sampling Results

Waltz-1

(x 10^4 pCi/m^3)

Collection Period	Cs-137	Th-228	Th-230	Th-232	Pu-238	Pu-239	U-234	U-235	U-238
12/31/02 - 03/28/03	< 1	0.1 +/- 0.1	0.2 +/- 0.1	0.1 +/- 0.1	< 0.1	0.2 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	0.2 +/- 0.1
03/28/03 - 06/25/03	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.3 +/- 0.1	< 0.1	0.3 +/- 0.1
06/25/03 - 09/24/03	< 1	< 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.2 +/- 0.1	< 0.1	0.2 +/- 0.1
09/24/03 - 12/30/03	< 1	0.2 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	0.3 +/- 0.1

Waltz-2

(x 10^4 pCi/m^3)

Collection Period	Cs-137	Th-228	Th-230	Th-232	Pu-238	Pu-239	U-234	U-235	U-238
12/31/02 - 03/28/03	< 1	0.2 +/- 0.1	0.4 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	0.3 +/- 0.1
03/28/03 - 06/25/03	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	0.3 +/- 0.1
06/25/03 - 09/24/03	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	< 0.1	0.3 +/- 0.1	< 0.1	0.2 +/- 0.1
09/24/03 - 12/30/03	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.2 +/- 0.1	0.1 +/- 0.1	0.3 +/- 0.1

PENNSYLVANIA BUREAU OF RADIATION PROTECTION

ENVIRONMENTAL SURVEILLANCE SECTION

Appendix B

2004

Source-Oriented Monitoring

1.A

PENNSYLVANIA MILK NETWORK DATA
Concentration (pCi/L)

Station	Sampling Date	I-131	Cs-134	Cs-137	Ba-140	K-40	Sr-90
Harrisburg	1/06/04	< 2	< 2	< 2	< 7	1340 +/- 52	< 2
1	2/04/04	< 2	< 2	< 2	< 6	1280 +/- 52	3 +/- 1
	3/03/04	< 2	< 2	< 2	< 7	1390 +/- 56	< 2
	4/06/04	< 2	< 2	< 2	< 7	1440 +/- 61	< 2
	5/04/04	< 2	< 2	< 2	< 6	1280 +/- 51	< 2
	6/09/04	< 2	< 2	< 2	< 5	1400 +/- 42	< 2
	7/08/04	< 2	< 2	< 3	< 7	1370 +/- 62	< 2
	8/04/04	< 2	< 2	< 2	< 6	1270 +/- 52	2 +/- 1
	9/08/04	< 2	< 2	< 2	< 6	1280 +/- 51	< 2
	10/06/04	< 2	< 2	< 2	< 6	1360 +/- 54	< 3
	11/10/04	< 3	< 2	< 2	< 7	1400 +/- 40	< 2
	12/08/04	< 2	< 2	< 2	< 5	1390 +/- 42	< 2

Station	Sampling Date	I-131	Cs-134	Cs-137	Ba-140	K-40	Sr-90
Pittsburgh	1/05/04	< 2	< 1	< 2	< 5	1410 +/- 36	1 +/- 1
2	2/02/04	< 2	< 2	< 2	< 6	1410 +/- 41	< 2
	3/09/04	< 2	< 1	< 2	< 5	1390 +/- 36	2 +/- 1
	4/05/04	< 3	< 2	< 2	< 8	1360 +/- 41	2 +/- 1
	5/04/04	< 3	< 2	< 2	< 8	1420 +/- 52	< 2
	6/07/04	< 3	< 2	< 2	< 7	1340 +/- 40	2 +/- 1
	7/07/04	< 3	< 2	< 2	< 6	1400 +/- 40	< 2
	8/03/04	< 3	< 2	< 2	< 9	1390 +/- 61	2 +/- 1
	9/08/04	< 2	< 2	< 2	< 6	1390 +/- 41	2 +/- 1
	10/05/05	< 4	< 2	< 3	< 11	1370 +/- 61	< 3
	11/08/04	< 3	< 2	< 2	< 7	1490 +/- 43	2 +/- 1
	12/06/04	< 2	< 1	< 2	< 5	1370 +/- 37	2 +/- 1

Station	Sampling Date	I-131	Cs-134	Cs-137	Ba-140	K-40	Sr-90
Erie	1/06/04	< 2	< 2	< 2	< 7	1340 +/- 55	< 2
5	2/02/04	< 2	< 1	< 2	< 5	1420 +/- 37	< 2
	3/01/04	< 2	< 2	< 2	< 5	1370 +/- 41	2 +/- 1
	4/05/04	< 2	< 2	< 2	< 6	1360 +/- 52	2 +/- 1
	5/03/04	< 2	< 2	< 2	< 5	1380 +/- 41	< 2
	6/07/04	< 2	< 2	< 2	< 6	1370 +/- 53	< 2
	7/12/04	< 2	< 1	< 2	< 4	1390 +/- 36	< 2
	8/02/04	< 2	< 2	< 2	< 6	1560 +/- 42	< 2
	9/13/04	< 2	< 1	< 2	< 4	1410 +/- 34	< 2
	10/04/04	< 2	< 2	< 2	< 5	1380 +/- 41	2 +/- 1
	11/01/04	< 2	< 2	< 2	< 5	1370 +/- 42	2 +/- 1
	12/06/04	< 2	< 2	< 2	< 6	1360 +/- 51	2 +/- 1

Station	Sampling Date	I-131	Cs-134	Cs-137	Ba-140	K-40	Sr-90
Philadelphia	1/08/04	< 2	< 2	< 2	< 6	1390 +/- 53	< 2
9	2/05/04	< 2	< 2	< 2	< 6	1320 +/- 53	2 +/- 1
	3/04/04	< 2	< 2	< 2	< 5	1360 +/- 41	< 2
	4/08/04	< 2	< 2	< 2	< 5	1450 +/- 42	< 2
	5/10/04	< 2	< 2	< 2	< 7	1310 +/- 56	< 2
	6/10/04	< 2	< 2	< 2	< 7	1360 +/- 58	< 2
	7/08/04	< 2	< 2	< 2	< 6	1310 +/- 57	< 2
	8/05/04	< 2	< 2	< 2	< 5	1530 +/- 42	2 +/- 1
	9/09/04	< 2	< 2	< 2	< 7	1390 +/- 58	2 +/- 1
	10/07/04	< 1	< 1	< 2	< 4	1340 +/- 35	2 +/- 1
	11/10/04	< 3	< 2	< 2	< 7	1390 +/- 42	< 2
	12/09/04	< 2	< 2	< 2	< 7	1240 +/- 55	2 +/- 1

1.B.1

PENNSYLVANIA WATER QUALITY NETWORK DATA

Station Number	Location	City	Collection Date	Concentration (pCi/L) Alpha	Beta	Tritium
110	Schuykill River	Philadelphia	02/12/04	< 2	4 +/- 1	< 190
			04/13/04	2 +/- 1	5 +/- 1	< 180
			06/15/04	< 2	3 +/- 1	< 180
			08/24/04	< 2	2 +/- 1	< 190
			11/08/04	2 +/- 1	4 +/- 1	< 180
111	Schuylkill River	Pottstown	02/19/04	< 2	2 +/- 1	< 180
			04/28/04	< 2	2 +/- 1	< 180
			06/16/04	< 2	4 +/- 1	< 180
			08/12/04	< 2	2 +/- 1	< 180
			11/03/04	< 2	2 +/- 1	< 170
182	Delaware River	Marcus Hook	02/26/04	< 2	2 +/- 1	< 170
			04/28/04	1 +/- 1	2 +/- 1	< 180
			06/01/04	< 2	2 +/- 1	< 190
			08/10/04	< 2	3 +/- 1	< 180
			10/12/04	< 2	3 +/- 1	< 180
			11/30/04	< 2	4 +/- 1	< 190
201	Susquehanna	Marietta	02/25/04	< 1	1 +/- 1	< 170
			04/12/04	< 2	< 2	< 180
			06/29/04	< 2	2 +/- 1	< 190
			08/12/04	< 2	1 +/- 1	< 180
211	Swatara Creek	Middletown	02/24/04	< 2	1 +/- 1	< 170
			04/07/04	< 2	2 +/- 1	< 180
			06/24/04	2 +/- 1	3 +/- 1	< 190
			08/12/04	< 2	3 +/- 1	< 180

1.B.2

PENNSYLVANIA WATER QUALITY NETWORK DATA

Station Number	Location	City	Collection Date	Concentration (pCi/L) Alpha	Beta	Tritium
301	Susquehanna River	Danville	02/18/04	< 2	2 +/- 1	< 180
			04/21/04	< 1	2 +/- 1	< 180
			06/07/04	< 2	2 +/- 1	< 180
			08/17/04	< 2	2 +/- 1	< 180
302	Luzerne	Newport	02/19/04	< 2	2 +/- 1	< 180
			04/15/04	< 2	3 +/- 1	< 180
			06/23/04	< 2	1 +/- 1	< 190
			08/17/04	1 +/- 1	2 +/- 1	< 180
601	Lake Erie	Millcreek	02/17/04	< 2	2 +/- 1	190 +/- 110
			04/20/04	< 2	2 +/- 1	< 180
			06/28/04	< 2	2 +/- 1	< 190
			08/25/04	< 2	1 +/- 1	< 190
			11/16/04	< 2	3 +/- 1	< 180
643	Conneaut Creek	Conneaut Twp	02/24/04	< 1	2 +/- 1	< 170
			04/14/04	< 1	3 +/- 1	< 180
			06/16/06	< 2	3 +/- 1	< 180
			08/18/04	< 2	3 +/- 1	< 190
901	Ohio River	Rochester	02/09/04	2 +/- 1	6 +/- 1	< 190
			04/01/04	< 2	1 +/- 1	< 170
			06/03/04	< 2	2 +/- 1	< 180
			08/04/04	< 2	2 +/- 1	< 180
			11/04/04	< 2	3 +/- 1	< 170
902	Sewickly Boro	Allegheny	02/12/04	2 +/- 1	4 +/- 1	< 190
			04/26/04	< 2	2 +/- 1	< 180
			06/30/04	< 2	< 2	< 190
			08/16/04	< 2	2 +/- 1	< 180
			11/29/04	< 2	2 +/- 1	< 190

1.C

PHILADELPHIA DRINKING WATER

Sample Period Ending	Baxter			Queen Lane			Belmont		
	Alpha	Beta	Tritium	Alpha	Beta	Tritium	Alpha	Beta	Tritium
1/30/04	< 1	1 +/- 1	< 190	< 3	4 +/- 1	< 190	< 2	< 2	< 190
2/27/04	< 2	2 +/- 1	< 180	< 3	< 4	< 180	< 2	3 +/- 1	< 180
3/31/04	4 +/- 1	2 +/- 1	< 170	< 2	3 +/- 1	< 170	3 +/- 1	3 +/- 1	< 170
4/30/04	< 2	2 +/- 1	< 190	< 3	< 3	< 190	< 2	2 +/- 1	< 190
5/28/04	< 2	1 +/- 1	< 190	< 2	3 +/- 1	< 190	< 2	3 +/- 1	< 190
6/29/04	< 1	1 +/- 1	< 200	< 3	3 +/- 1	< 200	< 3	3 +/- 1	< 200
7/30/04	< 2	2 +/- 1	< 180	< 3	3 +/- 1	< 180	< 3	4 +/- 1	< 180
8/31/04	< 2	3 +/- 1	< 180	< 3	4 +/- 1	< 180	< 3	3 +/- 1	< 180
9/30/04	< 2	2 +/- 1	< 180	< 3	4 +/- 1	< 180	< 2	3 +/- 1	< 180
10/29/04	< 2	2 +/- 1	< 180	< 2	3 +/- 1	< 180	< 3	3 +/- 1	< 180
11/30/04	< 2	2 +/- 1	< 170	< 3	3 +/- 1	< 170	< 2	4 +/- 1	< 170
12/31/04	< 2	< 2	< 190	< 2	3 +/- 1	< 190	< 2	2 +/- 1	< 190

1.D

PRECIPITATION MONITORING DATA

Collection Period	Concentration (pCi/L)		Deposition (nCi/m2)		
Ending	Alpha	Beta	Tritium	Alpha	Beta
01/05/04	< 1	4 +/- 1	< 170	< 0.03	0.11 +/- 0.03
01/27/04	2 +/- 1	8 +/- 1	< 180	0.02 +/- 0.01	0.08 +/- 0.01
02/03/04	2 +/- 1	5 +/- 1	< 180	0.04 +/- 0.02	0.10 +/- 0.02
02/06/04	1 +/- 1	3 +/- 1	< 190	0.04 +/- 0.04	0.12 +/- 0.04
03/08/04	1 +/- 1	3 +/- 1	< 170	0.02 +/- 0.02	0.06 +/- 0.02
03/17/04	2 +/- 1	6 +/- 1	< 170	0.03 +/- 0.01	0.08 +/- 0.01
03/22/04	2 +/- 1	5 +/- 1	< 170	0.03 +/- 0.01	0.07 +/- 0.01
04/01/04	1 +/- 1	4 +/- 1	< 180	0.03 +/- 0.03	0.11 +/- 0.03
04/12/04	2 +/- 1	7 +/- 1	< 180	0.02 +/- 0.01	0.08 +/- 0.01
04/13/04	< 1	2 +/- 1	< 180	< 0.03	0.07 +/- 0.03
04/15/04	1 +/- 1	4 +/- 1	< 180	0.02 +/- 0.02	0.07 +/- 0.02
04/26/04	2 +/- 1	7 +/- 1	< 180	0.07 +/- 0.03	0.24 +/- 0.03
04/27/04	< 1	< 2	< 180	< 0.02	< 0.03
05/03/04	< 1	< 2	< 180	< 0.02	< 0.05
04/28/04	1 +/- 1	4 +/- 1	< 180	0.01 +/- 0.01	0.06 +/- 0.01
05/10/04	3 +/- 1	8 +/- 1	< 190	0.03 +/- 0.01	0.08 +/- 0.01
05/17/04	1 +/- 1	4 +/- 1	< 190	0.02 +/- 0.02	0.09 +/- 0.02
05/26/04	1 +/- 1	6 +/- 1	< 190	0.01 +/- 0.01	0.05 +/- 0.01
06/07/04	< 1	3 +/- 1	< 180	< 0.05	0.14 +/- 0.05
06/14/04	< 1	< 2	< 180	< 0.04	< 0.08
06/15/04	1 +/- 1	6 +/- 1	< 180	0.01 +/- 0.01	0.07 +/- 0.01
06/28/04	3 +/- 1	6 +/- 1	< 190	0.03 +/- 0.01	0.06 +/- 0.01
06/29/04	1 +/- 1	3 +/- 1	< 190	0.01 +/- 0.01	0.03 +/- 0.01
07/08/04	1 +/- 1	4 +/- 1	< 180	0.02 +/- 0.02	0.07 +/- 0.02
07/12/04	1 +/- 1	5 +/- 1	< 190	0.03 +/- 0.03	0.13 +/- 0.03
07/15/04	1 +/- 1	4 +/- 1	< 180	0.03 +/- 0.03	0.12 +/- 0.03
07/26/04	1 +/- 1	5 +/- 1	< 180	0.01 +/- 0.01	0.04 +/- 0.01
07/27/04	1 +/- 1	5 +/- 1	< 180	0.02 +/- 0.02	0.10 +/- 0.02
08/02/04	< 1	< 2	< 180	< 0.04	< 0.07
08/05/04	< 1	4 +/- 1	< 180	< 0.07	0.28 +/- 0.07
08/12/04	2 +/- 1	8 +/- 1	< 180	0.02 +/- 0.01	0.08 +/- 0.01
08/16/04	< 1	3 +/- 1	< 180	< 0.03	0.10 +/- 0.03
08/23/04	2 +/- 1	4 +/- 1	< 190	0.08 +/- 0.04	0.16 +/- 0.04
09/09/04	1 +/- 1	3 +/- 1	< 180	0.02 +/- 0.02	0.07 +/- 0.02
09/21/04	1 +/- 1	1 +/- 1	< 180	0.12 +/- 0.12	0.12 +/- 0.12
09/28/04	1 +/- 1	2 +/- 1	< 180	0.07 +/- 0.07	0.14 +/- 0.07
09/29/04	1 +/- 1	< 2	< 180	0.02 +/- 0.02	< 0.03
10/18/04	2 +/- 1	4 +/- 1	< 180	0.03 +/- 0.01	0.06 +/- 0.01
10/21/04	2 +/- 1	7 +/- 1	< 180	0.03 +/- 0.01	0.10 +/- 0.01
11/01/04	1 +/- 1	2 +/- 1	< 180	0.01 +/- 0.01	0.02 +/- 0.01
11/08/04	1 +/- 1	2 +/- 1	< 170	0.02 +/- 0.02	0.03 +/- 0.02
11/15/04	1 +/- 1	4 +/- 1	< 180	0.02 +/- 0.02	0.07 +/- 0.02
11/22/04	2 +/- 1	7 +/- 1	< 190	0.02 +/- 0.01	0.07 +/- 0.01
11/24/04	1 +/- 1	5 +/- 1	< 190	0.01 +/- 0.01	0.06 +/- 0.01
11/29/04	1 +/- 1	2 +/- 1	< 190	0.02 +/- 0.02	0.05 +/- 0.02
12/01/04	1 +/- 1	4 +/- 1	< 170	0.03 +/- 0.03	0.10 +/- 0.03
12/08/04	1 +/- 1	5 +/- 1	< 170	0.01 +/- 0.01	0.06 +/- 0.01
12/10/04	< 1	2 +/- 1	< 170	< 0.03	0.06 +/- 0.03
12/23/04	1 +/- 1	2 +/- 1	< 180	0.01 +/- 0.01	0.03 +/- 0.01
12/27/04	1 +/- 1	4 +/- 1	< 170	0.03 +/- 0.03	0.11 +/- 0.03

2.A

BEAVER VALLEY POWER STATION
QUARTERLY TLD INTERCOMPARISON
(mR/std. mo.)

	Location	Collection Period	Global Results	Proxtronics Results
3B1	Shippingport	1/8/04 - 4/6/04	3.1 +/- 1.0	4.2 +/- 0.1
		4/6/04 - 6/29/04	3.6 +/- 0.2	3.7 +/- 1.0
		6/29/04 - 10/4/04	4.4 +/- 0.4	4.0 +/- 0.4
		10/4/04 - 1/5/05	3.9 +/- 0.7	3.2 +/- 0.9
3C1	Industry	1/8/04 - 4/6/04	3.3 +/- 0.8	3.4 +/- 0.1
		4/6/04 - 6/29/04	3.4 +/- 0.1	3.8 +/- 1.2
		6/29/04 - 10/4/04	4.5 +/- 0.6	4.6 +/- 1.1
		10/4/04 - 1/5/05	4.1 +/- 0.4	3.6 +/- 0.4
5C1	Mt. Pleasant Church	1/8/04 - 4/6/04	3.3 +/- 0.7	4.3 +/- 1.3
		4/6/04 - 6/29/04	3.6 +/- 0.4	4.4 +/- 0.3
		6/29/04 - 10/4/04	4.5 +/- 0.5	5.1 +/- 0.9
		10/4/04 - 1/5/05	4.2 +/- 0.3	4.7 +/- 1.0
11B1	Meyer Farm	1/8/04 - 4/6/04	3.4 +/- 0.7	4.1 +/- 0.5
		4/6/04 - 6/29/04	3.5 +/- 0.2	3.3 +/- 0.1
		6/29/04 - 10/4/04	4.4 +/- 0.4	3.5 +/- 0.3
		10/4/04 - 1/5/05	3.9 +/- 0.6	4.0 +/- 0.3
			45.8 +/- 2.4	47.9 +/- 4.7

2.B

BEAVER VALLEY POWER STATION
BRP THERMOLUMINESCENCE DOSIMETRY (TLD) DATA
(mR/std. mo.)

Station Number	Location	1/8/04 to 4/6/04	4/6/04 to 6/29/04	6/29/04 to 10/4/04	10/4/04 to 1/5/05	Annual Dose
01D1	Dever Residence	3.9 +/- 0.2	3.7 +/- 0.5	4.7 +/- 0.6	4.5 +/- 0.1	50.4 +/- 2.5
03B1	Shippingport	3.1 +/- 1.0	3.6 +/- 0.2	4.4 +/- 0.4	3.9 +/- 0.7	45.1 +/- 3.8
03C1	Industry	3.3 +/- 0.8	3.4 +/- 0.1	4.5 +/- 0.6	4.1 +/- 0.4	45.8 +/- 3.3
03D1	Ohioview	Missing	Missing	4.6 +/- 0.7	4.2 +/- 0.4	26.5 +/- 2.3
03J1	Beaver	3.9 +/- 0.2	3.5 +/- 0.1	4.4 +/- 0.6	4.4 +/- 0.2	48.7 +/- 1.9
04A1	Ferry Hill Substation	3.5 +/- 0.6	3.8 +/- 0.3	5.0 +/- 0.9	4.3 +/- 0.3	50.2 +/- 3.5
04C1	Potter Twp. School	3.3 +/- 0.9	3.0 +/- 0.4	4.3 +/- 0.3	3.6 +/- 0.9	42.6 +/- 3.9
04K1	Monaca	2.8 +/- 1.2	3.0 +/- 0.4	4.6 +/- 0.5	3.3 +/- 1.2	41.1 +/- 5.3
05C1	Mt. Pleasant Church	3.3 +/- 0.7	3.6 +/- 0.4	4.5 +/- 0.5	4.2 +/- 0.3	46.8 +/- 3.1
05J1	Aliquippa	3.0 +/- 1.0	3.5 +/- 0.2	5.3 +/- 1.3	4.7 +/- 0.3	49.7 +/- 5.0
06B1	Kennedy's Corner	3.9 +/- 0.5	3.6 +/- 0.1	4.4 +/- 0.4	4.4 +/- 0.1	48.8 +/- 2.0
06D1	Raccoon Twp. School	3.0 +/- 1.0	3.2 +/- 0.2	4.2 +/- 0.3	3.6 +/- 0.8	42.1 +/- 4.1
06F1	Green Garden Road	3.0 +/- 1.0	2.8 +/- 0.5	5.1 +/- 1.0	3.8 +/- 0.7	44.0 +/- 5.0
06N1	Pittsburgh	3.5 +/- 0.6	3.2 +/- 0.2	4.8 +/- 0.9	3.9 +/- 0.8	46.2 +/- 4.1
07C1	Raccoon Twp. Building	3.2 +/- 0.9	3.2 +/- 0.2	5.4 +/- 1.4	5.0 +/- 0.4	50.3 +/- 5.0
07G1	Brunton Farm	3.5 +/- 0.6	3.3 +/- 0.1	4.9 +/- 0.8	3.8 +/- 0.7	46.7 +/- 3.7
08C1	McCleary & Shivler Roads	3.5 +/- 0.6	3.0 +/- 0.4	4.8 +/- 0.8	4.0 +/- 0.6	45.8 +/- 3.6
08E1	Raccoon Volunteer Fire Dept.	2.8 +/- 1.2	3.0 +/- 0.4	4.8 +/- 0.7	4.1 +/- 0.5	43.9 +/- 4.6
09D1	Mill Creek U.P. Church	3.1 +/- 1.0	3.2 +/- 0.3	4.3 +/- 0.3	3.9 +/- 0.7	43.3 +/- 3.8
10C1	McCleary Road	3.1 +/- 1.0	3.2 +/- 0.3	4.4 +/- 0.4	4.1 +/- 0.4	44.4 +/- 3.7
10E1	Mill Creek Road	3.4 +/- 0.6	3.3 +/- 0.2	3.9 +/- 0.1	4.5 +/- 0.2	45.3 +/- 2.1
11B1	Meyer Farm	3.4 +/- 0.7	3.5 +/- 0.2	4.4 +/- 0.4	3.9 +/- 0.6	45.6 +/- 3.1
11J1	Hancock Co. Parks Complex	3.6 +/- 0.5	4.1 +/- 0.6	5.0 +/- 0.9	5.2 +/- 0.6	53.9 +/- 3.9
12C1	Hookstown	3.3 +/- 0.8	3.2 +/- 0.2	5.4 +/- 1.3	4.4 +/- 0.2	48.7 +/- 4.6
13C1	Haney Farm	3.8 +/- 0.5	4.1 +/- 0.7	4.8 +/- 0.7	4.5 +/- 0.5	51.5 +/- 3.6
13F1	East Liverpool, OH	3.0 +/- 1.0	3.3 +/- 0.1	5.0 +/- 0.9	4.1 +/- 0.5	46.1 +/- 4.3
14D1	Georgetown	3.0 +/- 1.0	3.2 +/- 0.2	5.4 +/- 1.2	3.8 +/- 0.6	46.2 +/- 5.1
15A1	Midland Substation	3.6 +/- 0.6	3.5 +/- 0.1	5.9 +/- 1.7	4.4 +/- 0.4	52.0 +/- 5.7
15B1	Presentation Church	4.5 +/- 0.5	4.3 +/- 0.7	4.1 +/- 0.2	6.0 +/- 1.3	56.8 +/- 4.8
16B1	Sunset Hills	3.5 +/- 0.7	3.1 +/- 0.3	4.8 +/- 0.8	4.2 +/- 0.4	46.9 +/- 3.4
					Annual Average:	46.5 +/- 3.8

*Control corrected-net exposure.

2.C.1

BEAVER VALLEY AIR SAMPLING DATA
INDUSTRY (3C2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Particulates (x 0.01 pCi/m^3) Beta	Iodine-131 (x 0.01 pCi/m^3)
12/29/03 - 01/06/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
01/06/04 - 01/12/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
01/12/04 - 01/20/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
01/20/04 - 01/28/04	0.1 +/- 0.1	0.7 +/- 0.1	< 0.3
01/28/04 - 02/02/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.4
02/02/04 - 02/09/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
02/09/04 - 02/18/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
02/18/04 - 02/23/04	0.1 +/- 0.1	2.3 +/- 0.1	< 0.5
02/23/04 - 03/01/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
03/01/04 - 03/08/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
03/08/04 - 03/15/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.6
03/15/04 - 03/22/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
03/22/04 - 03/29/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
03/29/04 - 04/05/04	0.1 +/- 0.1	0.6 +/- 0.1	< 0.5
04/05/04 - 04/12/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
04/12/04 - 04/19/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
04/19/04 - 04/26/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
04/26/04 - 05/03/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
05/03/04 - 05/10/04	0.2 +/- 0.1	1.8 +/- 0.1	< 0.3
05/10/04 - 05/17/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
05/17/04 - 05/24/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
05/24/04 - 06/01/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/01/04 - 06/07/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/07/04 - 06/16/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
06/16/04 - 06/21/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.6
06/21/04 - 06/28/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
06/28/04 - 07/06/04	0.2 +/- 0.1	1.9 +/- 0.1	< 0.5
07/06/04 - 07/12/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
07/12/04 - 07/19/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/19/04 - 07/27/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
07/27/04 - 08/02/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
08/02/04 - 08/09/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
08/09/04 - 08/16/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
08/16/04 - 08/23/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
08/23/04 - 08/30/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
08/30/04 - 09/07/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
09/07/04 - 09/13/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
09/13/04 - 09/22/04	0.2 +/- 0.1	1.6 +/- 0.1	< 0.4
09/22/04 - 09/27/04	0.2 +/- 0.1	2.6 +/- 0.1	< 0.6
09/27/04 - 10/04/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
10/04/04 - 10/12/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
10/12/04 - 10/18/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
10/18/04 - 10/25/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
10/25/04 - 11/01/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
11/01/04 - 11/08/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
11/08/04 - 11/15/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
11/15/04 - 11/22/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.2
11/22/04 - 11/29/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
11/29/04 - 12/06/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
12/06/04 - 12/15/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
12/15/04 - 12/21/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.7
12/21/04 - 12/28/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3

2.C.2
BEAVER VALLEY AIR SAMPLING DATA
COOKS FERRY SUBSTATION (4A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/29/03 - 01/06/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
01/06/04 - 01/12/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
01/12/04 - 01/20/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
01/20/04 - 01/28/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.2
01/28/04 - 02/02/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.4
02/02/04 - 02/09/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
02/09/04 - 02/18/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
02/18/04 - 02/23/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.6
02/23/04 - 03/01/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
03/01/04 - 03/08/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
03/08/04 - 03/15/04	0.2 +/- 0.1	1.4 +/- 0.1	< 0.5
03/15/04 - 03/22/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
03/22/04 - 03/29/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
03/29/04 - 04/05/04	0.1 +/- 0.1	0.6 +/- 0.1	< 0.6
04/05/04 - 04/12/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
04/12/04 - 04/19/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
04/19/04 - 04/26/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
04/26/04 - 05/03/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
05/03/04 - 05/10/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.5
05/10/04 - 05/17/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
05/17/04 - 05/24/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
05/24/04 - 06/01/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/01/04 - 06/07/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
06/07/04 - 06/16/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
06/16/04 - 06/21/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.6
06/21/04 - 06/28/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
06/28/04 - 07/06/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.5
07/06/04 - 07/12/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.7
07/12/04 - 07/19/04	0.2 +/- 0.1	1.5 +/- 0.1	< 0.4
07/19/04 - 07/27/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
07/27/04 - 08/02/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
08/02/04 - 08/09/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
08/09/04 - 08/16/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
08/16/04 - 08/23/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
08/23/04 - 08/30/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
08/30/04 - 09/07/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
09/07/04 - 09/13/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
09/13/04 - 09/22/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
09/22/04 - 09/27/04	0.1 +/- 0.1	2.6 +/- 0.1	< 0.5
09/27/04 - 10/04/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
10/04/04 - 10/12/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.5
10/12/04 - 10/18/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
10/18/04 - 10/25/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
10/25/04 - 11/01/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
11/01/04 - 11/08/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
11/08/04 - 11/15/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
11/15/04 - 11/22/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
11/22/04 - 11/29/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
11/29/04 - 12/06/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.2
12/06/04 - 12/15/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
12/15/04 - 12/21/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.6
12/21/04 - 12/28/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3

2.C.3
BEAVER VALLEY AIR SAMPLING DATA
MEYER FARM (11B2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Particulates (x 0.01 pCi/m^3) Beta	Iodine-131 (x 0.01 pCi/m^3)
12/29/03 - 01/06/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
01/06/04 - 01/12/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
01/12/04 - 01/20/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
01/20/04 - 01/28/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
01/28/04 - 02/02/04	0.1 +/- 0.1	2.3 +/- 0.1	< 0.4
02/02/04 - 02/09/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
02/09/04 - 02/18/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
02/18/04 - 02/23/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.6
02/23/04 - 03/01/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
03/01/04 - 03/08/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
03/08/04 - 03/15/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
03/15/04 - 03/22/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
03/22/04 - 03/29/04	0.2 +/- 0.1	1.6 +/- 0.1	< 0.4
03/29/04 - 04/05/04	0.1 +/- 0.1	0.6 +/- 0.1	< 0.5
04/05/04 - 04/12/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
04/12/04 - 04/19/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/19/04 - 04/26/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.6
04/26/04 - 05/03/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
05/03/04 - 05/10/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
05/10/04 - 05/17/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.5
05/17/04 - 05/24/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
05/24/04 - 06/01/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/01/04 - 06/07/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/07/04 - 06/16/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
06/16/04 - 06/21/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.6
06/21/04 - 06/28/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
06/28/04 - 07/06/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.5
07/06/04 - 07/12/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.6
07/12/04 - 07/19/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
07/19/04 - 07/27/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
07/27/04 - 08/02/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
08/02/04 - 08/09/04	0.2 +/- 0.1	1.6 +/- 0.1	< 0.5
08/09/04 - 08/16/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
08/16/04 - 08/23/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.5
08/23/04 - 08/30/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.5
08/30/04 - 09/07/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.8
09/07/04 - 09/13/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.7
09/13/04 - 09/22/04	0.1 +/- 0.1	2.6 +/- 0.1	< 0.2
09/22/04 - 09/27/04		* No Sample Available	
09/27/04 - 10/04/04		* No Sample Available	
10/04/04 - 10/12/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.5
10/12/04 - 10/18/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
10/18/04 - 10/25/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
10/25/04 - 11/01/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
11/01/04 - 11/08/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
11/08/04 - 11/15/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
11/15/04 - 11/22/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
11/22/04 - 11/29/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
11/29/04 - 12/06/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.7
12/06/04 - 12/15/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.6
12/15/04 - 12/21/04	0.1 +/- 0.1	1.5 +/- 0.1	< 1.2
12/21/04 - 12/28/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5

* Power out

2.C.4
BEAVER VALLEY AIR SAMPLING DATA
MIDLAND SUBSTATION (15A2)

Collection Period	Particulates (x 0.01 pCi/m^3)		Iodine-131 (x 0.01 pCi/m^3)
12/29/03 - 01/06/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
01/06/04 - 01/12/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
01/12/04 - 01/20/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
01/20/04 - 01/28/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
01/28/04 - 02/02/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
02/02/04 - 02/09/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
02/09/04 - 02/18/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
02/18/04 - 02/23/04	0.2 +/- 0.1	2.0 +/- 0.1	< 0.6
02/23/04 - 03/01/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
03/01/04 - 03/08/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.7
03/08/04 - 03/15/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.7
03/15/04 - 03/22/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
03/22/04 - 03/29/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
03/29/04 - 04/05/04	0.1 +/- 0.1	0.6 +/- 0.1	< 0.7
04/05/04 - 04/12/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
04/12/04 - 04/19/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
04/19/04 - 04/26/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.6
04/26/04 - 05/03/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.6
05/03/04 - 05/10/04	0.2 +/- 0.1	1.6 +/- 0.1	< 0.5
05/10/04 - 05/17/04		* Low Volume - data invalid	
05/17/04 - 05/24/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.6
05/24/04 - 06/01/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
06/01/04 - 06/07/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
06/07/04 - 06/16/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
06/16/04 - 06/21/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.6
06/21/04 - 06/28/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
06/28/04 - 07/06/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.6
07/06/04 - 07/12/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.7
07/12/04 - 07/19/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
07/19/04 - 07/27/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
07/27/04 - 08/02/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
08/02/04 - 08/09/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
08/09/04 - 08/16/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
08/16/04 - 08/23/04	0.2 +/- 0.1	2.0 +/- 0.1	< 0.4
08/23/04 - 08/30/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
08/30/04 - 09/07/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
09/07/04 - 09/13/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.5
09/13/04 - 09/22/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
09/22/04 - 09/27/04	0.2 +/- 0.1	2.6 +/- 0.1	< 0.5
09/27/04 - 10/04/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.5
10/04/04 - 10/12/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
10/12/04 - 10/18/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
10/18/04 - 10/25/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
10/25/04 - 11/01/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
11/01/04 - 11/08/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
11/08/04 - 11/15/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
11/15/04 - 11/22/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
11/22/04 - 11/29/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
11/29/04 - 12/06/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
12/06/04 - 12/15/04	0.2 +/- 0.1	1.2 +/- 0.1	< 0.3
12/15/04 - 12/21/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.7
12/21/04 - 12/28/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3

2.D

BEAVER VALLEY AIR PARTICULATE COMPOSITES
(fCi/m3)

Station Number	Location	Collection Period	Cs-134	Cs-137
3C2	Industry	12/29/03 - 3/29/04	< 0.1	< 0.1
		3/29/04 - 6/28/04	< 0.1	< 0.1
		6/28/04 - 9/27/04	< 0.1	< 0.1
		9/27/04 - 12/28/04	< 0.1	< 0.1
4A2	Ferry Hill Substation	12/29/03 - 3/29/04	< 0.1	< 0.1
		3/29/04 - 6/28/04	< 0.1	< 0.1
		6/28/04 - 9/27/04	< 0.1	< 0.1
		9/27/04 - 12/28/04	< 0.1	< 0.1
11B2	Meyer Farm	12/29/03 - 3/29/04	< 0.1	< 0.1
		3/29/04 - 6/28/04	< 0.1	< 0.1
		6/28/04 - 9/27/04	< 0.1	< 0.1
		9/27/04 - 12/28/04	< 0.2	< 0.2
15A2	Midland Substation	12/29/03 - 3/29/04	< 0.1	< 0.1
		3/29/04 - 6/28/04	< 0.1	< 0.1
		6/28/04 - 9/27/04	< 0.1	< 0.1
		9/27/04 - 12/28/04	< 0.1	< 0.1

2.E.1

BEAVER VALLEY WATER SAMPLING DATA
J & L Steel, Midland (14B1
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
2/03/04	2 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 5	< 1	< 2	< 9
3/02/04	2 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 5	< 1	< 2	< 10
3/30/04	2 +/- 1	< 170	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 6
4/27/04	< 2	< 180	< 2	< 3	< 1	< 2	< 3	< 2 / < 2	< 3	< 1	1 +/- 1	< 6
6/01/04	2 +/- 1	< 180	< 1	< 4	< 2	< 2	< 3	< 3 / < 2	< 7	< 1	< 2	< 12
6/29/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 5	< 2	< 2	< 11
8/03/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 4	< 2	< 2	< 8
8/31/04	2 +/- 1	< 180	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 7
9/28/04	3 +/- 1	< 180	< 2	< 3	< 2	< 1	< 3	< 2 / < 2	< 3	< 1	< 1	< 6
11/02/04	3 +/- 1	< 170	< 1	< 2	< 1	< 1	< 2	< 2 / < 2	< 3	< 1	< 1	< 7
11/30/04	2 +/- 1	< 170	< 1	< 3	< 1	< 1	< 3	< 2 / < 2	< 3	< 1	< 2	< 6
12/28/04	2 +/- 1	< 180	< 1	< 3	< 2	< 1	< 3	< 2 / < 2	< 3	< 1	< 2	< 7

ARCO POLYMER (4F1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/27/04	6 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
2/24/04	3 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 4	< 1	< 2	< 9
3/30/04	3 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 2	< 2	2 +/- 1	< 6
4/27/04	3 +/- 1	< 180	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 2	< 2	< 6
6/01/04	2 +/- 1	< 180	< 1	< 4	< 2	< 2	< 3	< 3 / < 2	< 7	< 1	< 2	< 12
6/29/04	3 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 5	< 2	< 2	< 11
7/27/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 4	< 1	< 2	< 9
8/31/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 1	< 2	< 7
9/28/04	3 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 2	< 2	< 6
10/26/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 1	< 2	< 6
11/30/04	3 +/- 1	< 170	< 1	< 3	< 2	< 1	< 3	< 2 / < 2	< 3	< 1	< 1	< 7
12/28/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 1	< 2	< 6

2.E.2

EAST LIVERPOOL (14F1)
(pCi/l)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
2/03/04	4 +/- 1	< 190	< 1	< 3	< 2	< 1	< 3	< 3 / < 2	< 5	< 1	< 2	< 9
3/02/04	3 +/- 1	< 170	< 2	< 3	< 2	< 1	< 3	< 3 / < 2	< 5	< 2	< 2	< 10
3/30/04	2 +/- 1	< 170	< 2	< 3	< 1	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 6
4/27/04	2 +/- 1	< 190	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 7
6/01/04	2 +/- 1	< 180	< 1	< 3	< 2	< 2	< 2	< 3 / < 2	< 8	< 1	< 2	< 12
6/29/04	2 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 4 / < 2	< 6	< 2	< 2	< 12
8/03/04	2 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 4	< 2	< 2	< 10
8/31/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 4	< 1	< 2	< 8
9/28/04	3 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 7
11/02/04	3 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 4	< 2	< 2	< 9
11/30/04	2 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 7
12/28/04	2 +/- 1	< 190	< 1	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 1	< 2	< 6

2.F

BEAVER VALLEY MILK SAMPLING DATA
(pCi/L)

Station Number	Collection Date	Collection Date I-131	Cs-134	Cs-137	Ba-140	K-40
11C1-18	1/13/04	< 2	< 2	< 2	< 5	1280 +/- 39
	2/10/04	< 2	< 2	< 2	< 5	1290 +/- 39
	3/16/04	< 2	< 2	< 2	< 5	1340 +/- 41
	4/20/04	< 2	< 2	< 2	< 5	1320 +/- 41
	5/18/04	< 2	< 2	< 2	< 6	1320 +/- 51
	6/14/04	< 2	< 2	< 2	< 6	1360 +/- 42
	7/13/04	< 2	< 2	< 2	< 5	1380 +/- 37
	8/10/04	< 3	< 2	< 2	< 8	1290 +/- 57
	9/21/04	< 2	< 2	< 2	< 7	1300 +/- 53
	10/19/04	< 2	< 2	< 2	< 6	1340 +/- 40
	11/16/04	< 2	< 2	< 2	< 6	1310 +/- 37
	12/14/04	< 2	< 2	< 2	< 5	1380 +/- 40
07G2-18	1/14/04	< 2	< 2	< 2	< 5	1270 +/- 39
	2/10/04	< 2	< 1	< 2	< 5	1360 +/- 35
	3/17/04	< 2	< 1	< 2	< 5	1330 +/- 34
	4/21/04	< 3	< 2	< 2	< 7	1220 +/- 36
	5/19/04	< 2	< 2	< 3	< 7	1350 +/- 57
	6/16/04	< 2	< 1	< 2	< 5	1370 +/- 41
	7/14/04	< 2	< 1	< 2	< 4	1370 +/- 35
	8/11/04	< 3	< 2	< 3	< 8	1320 +/- 62
	9/22/04	< 2	< 2	< 2	< 7	1410 +/- 60
	10/20/04	< 2	< 2	< 2	< 5	1370 +/- 40
	11/17/04	< 2	< 2	< 2	< 5	1380 +/- 41
	12/15/04	< 2	< 1	< 2	< 4	1370 +/- 36

2.G

BEAVER VALLEY FISH, PRODUCE & SEDIMENT DATA
(pCi/kg)

	Fish*		Sediment**	Produce*	
Isotope	**4/16/2004**	**10/13/2004**	**10/21/2004**	**Georgetown 8/26/2004**	**Shippingport 9/15/2004**
I-131	< 66	< 57	< 68	< 6	< 6
Mn-54	< 4	< 4	< 8	< 2	< 3
Fe-59	< 13	< 15	< 26	< 6	< 7
Co-58	< 4	< 6	< 10	< 3	< 3
Co-60	< 4	< 5	< 10	< 3	< 3
Zn-65	< 9	< 12	< 23	< 6	< 6
Zr-Nb-95	< 7/< 6	< 9/< 8	< 21/< 17	< 4/< 3	< 5/< 3
Cs-134	< 3	< 4	< 8	< 2	< 2
Cs-137	< 3	< 4	86 +/- 8	< 2	< 3
Ba-140	< 71	< 73	< 111	< 13	< 14

* Wet Weight
** Dry Weight

3.A

LIMERICK GENERATING STATION
QUARTERLY TLD INTERCOMPARISON
(mR/std. mo.)

Station Number	Location	Collection Period	Global Results	Proxtronics Results
2B1	Sanatoga	1/7/04 - 4/7/04	4.4 +/- 0.7	3.4 +/- 0.8
		4/7/04 - 7/7/04	3.3 +/- 0.2	3.9 +/- 0.3
		7/7/04 - 10/6/04	4.2 +/- 0.7	3.7 +/- 0.6
		10/6/04 - 1/5/05	4.3 +/- 0.4	5.9 +/- 0.5
6A1	Information Center	1/7/04 - 4/7/04	4.5 +/- 0.6	5.0 +/- 1.1
		4/7/04 - 7/7/04	4.2 +/- 1.0	5.1 +/- 0.2
		7/7/04 - 10/6/04	5.1 +/- 0.1	6.8 +/- 0.2
		10/6/04 - 1/5/05	4.9 +/- 0.3	6.6 +/- 0.3
8B1	Linfield	1/7/04 - 4/7/04	3.3 +/- 0.5	2.9 +/- 0.3
		4/7/04 - 7/7/04	2.8 +/- 0.3	3.1 +/- 0.3
		7/7/04 - 10/6/04	3.8 +/- 1.0	3.8 +/- 0.8
		10/6/04 - 1/5/05	3.6 +/- 0.9	5.8 +/- 1.0
14B1	Industrial Highway	1/7/04 - 4/7/04	3.8 +/- 0.3	3.8 +/- 0.3
		4/7/04 - 7/7/04	3.3 +/- 0.2	4.1 +/- 0.7
		7/7/04 - 10/6/04	4.3 +/- 0.8	6.0 +/- 1.1
		10/6/04 - 1/5/05	4.0 +/- 0.6	3.7 +/- 0.4
			47.9 +/- 3.0	55.4 +/- 3.4

3.B

LIMERICK GENERATING STATION
THERMOLUMINESCENCE DOSIMETRY (TLD) DATA
(mR/std. mo.)

Station Number	Location	1/7/04 to 4/7/04	4/7/04 to 7/7/04	7/7/04 to 10/6/04	10/6/04 to 1/5/05	Annual Dose
01A1	Evergreen & Sanatoga Roads	3.7 +/- 0.1	3.6 +/- 0.4	4.8 +/- 0.2	4.9 +/- 0.3	51.1 +/- 1.8
02B1	Sanatoga	4.4 +/- 0.7	3.3 +/- 0.2	4.2 +/- 0.7	4.3 +/- 0.4	48.7 +/- 3.2
02E1	Camp Laughing Waters	3.4 +/- 0.4	3.6 +/- 0.5	5.0 +/- 0.1	4.5 +/- 0.2	49.6 +/- 2.0
03E1	Neiffer Road	4.9 +/- 3.0	2.5 +/- 0.6	3.3 +/- 1.5	3.0 +/- 1.5	40.9 +/- 11.2
04C1	Pottstown-Limerick Airport	4.3 +/- 0.7	3.6 +/- 0.5	4.2 +/- 0.7	3.8 +/- 0.8	47.4 +/- 4.1
04C2	Limerick School	4.0 +/- 0.1	3.1 +/- 0.1	4.1 +/- 0.7	4.2 +/- 0.5	46.3 +/- 2.8
04E1	Game Farm	4.0 +/- 0.1	3.7 +/- 0.5	4.3 +/- 0.7	4.6 +/- 0.3	49.6 +/- 2.7
04G1	Schwenksville	3.9 +/- 0.2	3.6 +/- 0.4	4.2 +/- 0.7	4.1 +/- 0.5	47.5 +/- 2.9
06A1	Information Center	4.5 +/- 0.6	4.2 +/- 1.0	5.1 +/- 0.1	4.9 +/- 0.3	55.8 +/- 3.5
06C1	Stanley Tools	3.7 +/- 0.1	3.4 +/- 0.2	4.3 +/- 0.6	4.5 +/- 0.2	47.6 +/- 2.2
06G1	Collegeville	3.6 +/- 0.2	3.2 +/- 0.1	4.2 +/- 0.8	4.0 +/- 0.6	45.2 +/- 2.9
07C1	King Road	2.5 +/- 1.2	2.7 +/- 0.4	2.9 +/- 1.8	3.2 +/- 1.3	34.1 +/- 7.6
07D1	Spring City	3.5 +/- 0.3	3.8 +/- 0.6	4.8 +/- 0.1	4.5 +/- 0.2	49.7 +/- 2.1
07E1	Royersford	3.1 +/- 0.6	2.9 +/- 0.2	3.6 +/- 1.2	3.7 +/- 0.8	40.0 +/- 4.9
07H1	Phoenixville	3.4 +/- 0.4	3.1 +/- 0.0	3.8 +/- 1.1	4.1 +/- 0.5	43.3 +/- 3.7
08B1	Linfield	3.3 +/- 0.5	2.8 +/- 0.3	3.8 +/- 1.0	3.6 +/- 0.9	40.7 +/- 4.4
08F1	Pikeland Substation	4.7 +/- 0.7	3.6 +/- 0.4	5.0 +/- 0.1	4.5 +/- 0.2	53.1 +/- 2.5
09B1	Parker Ford	3.5 +/- 0.3	3.5 +/- 0.4	4.3 +/- 0.7	4.0 +/- 0.7	45.7 +/- 3.3
09D1	Snowden Substation	3.6 +/- 0.2	3.3 +/- 0.2	4.4 +/- 0.6	4.3 +/- 0.4	46.8 +/- 2.3
10D1	Ellis Woods Road	4.9 +/- 1.7	7.5 +/- 7.5	3.8 +/- 1.0	3.7 +/- 1.0	59.7 +/- 23.4
11E1	Porters Mill Substation	3.5 +/- 0.3	3.0 +/- 0.4	4.2 +/- 0.7	3.8 +/- 0.8	43.5 +/- 3.6
12A1	Fricks Lock	3.5 +/- 0.4	3.1 +/- 0.2	3.9 +/- 1.0	3.6 +/- 0.9	42.3 +/- 4.3
12E1	Hoffecker Road & Keim Street	3.3 +/- 0.5	2.8 +/- 0.3	3.8 +/- 1.1	3.9 +/- 0.7	41.3 +/- 4.3
13C1	Kenilworth	3.5 +/- 0.3	3.1 +/- 0.2	4.5 +/- 0.9	3.9 +/- 0.6	45.0 +/- 3.4
14B1	Industrial Highway	3.8 +/- 0.3	3.3 +/- 0.2	4.3 +/- 0.8	4.0 +/- 0.6	46.4 +/- 3.2
14L1	Birdsboro	2.4 +/- 1.3	2.5 +/- 0.5	3.4 +/- 1.4	3.2 +/- 1.3	34.7 +/- 7.0
15D1	Pottstown	4.4 +/- 0.5	4.2 +/- 1.0	5.1 +/- 0.2	5.0 +/- 0.3	56.2 +/- 3.5
16B1	Pleasantview Road	4.0 +/- 0.2	3.8 +/- 0.8	4.3 +/- 0.7	4.2 +/- 0.5	49.0 +/- 3.7
16E1	Yarnall Road	3.7 +/- 0.2	3.4 +/- 0.3	4.6 +/- 0.4	3.8 +/- 0.7	46.4 +/- 2.7
16H1	Boyertown	2.9 +/- 0.8	2.9 +/- 0.3	3.7 +/- 1.3	4.1 +/- 0.6	40.7 +/- 5.0
					Annual Average:	46.3 +/- 4.5

*Control corrected-net exposure.

3.C.1

LIMERICK AIR SAMPLING DATA

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Particulates (x 0.01 pCi/m^3) Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/03 - 01/08/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
01/08/04 - 01/15/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.2
01/15/04 - 01/22/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.2
01/22/04 - 01/30/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
01/30/04 - 02/05/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
02/05/05 - 02/12/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
02/12/04 - 02/19/04	0.2 +/- 0.1	2.2 +/- 0.1	< 0.2
02/19/04 - 02/26/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.2
02/26/04 - 03/04/04	0.2 +/- 0.1	1.9 +/- 0.1	< 0.2
03/04/04 - 03/11/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
03/11/04 - 03/18/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
03/18/04 - 03/25/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
03/25/04 - 04/01/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
04/01/04 - 04/08/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/08/04 - 04/15/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
04/15/04 - 04/22/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
04/22/04 - 04/29/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
04/29/04 - 05/06/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
05/06/04 - 05/13/04	0.2 +/- 0.1	2.1 +/- 0.1	< 0.3
05/13/04 - 05/20/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
05/20/04 - 05/27/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
05/27/03 - 06/03/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
06/03/04 - 06/10/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
06/10/04 - 06/17/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
06/17/04 - 06/24/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
06/24/04 - 07/01/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
07/01/04 - 07/08/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
07/08/04 - 07/15/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
07/15/04 - 07/22/04	0.2 +/- 0.1	1.7 +/- 0.1	< 0.4
07/22/04 - 07/29/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
07/28/04 - 08/05/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
08/05/04 - 08/12/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
08/12/04 - 08/19/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
08/19/04 - 08/26/04	0.2 +/- 0.1	2.1 +/- 0.1	< 0.3
08/26/04 - 09/02/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
09/02/04 - 09/09/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
09/09/04 - 09/16/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
09/16/04 - 09/23/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
09/23/04 - 09/30/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.2
09/30/04 - 10/07/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
10/07/04 - 10/14/04	0.2 +/- 0.1	2.1 +/- 0.1	< 0.2
10/14/04 - 10/21/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
10/21/04 - 10/28/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
10/28/04 - 11/04/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
11/04/04 - 11/10/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
11/10/04 - 11/18/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
11/18/04 - 11/24/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
11/24/04 - 12/02/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
12/02/04 - 12/09/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
12/09/04 - 12/16/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
12/16/04 - 12/23/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
12/23/04 - 12/30/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4

3.C.2
LIMERICK AIR SAMPLING DATA
INFORMATION CENTER (6A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	(x 0.01 pCi/m^3)
12/31/03 - 01/08/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
01/08/04 - 01/15/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
01/15/04 - 01/22/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
01/22/04 - 01/30/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
01/30/04 - 02/05/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
02/05/05 - 02/12/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
02/12/04 - 02/19/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
02/19/04 - 02/26/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.2
02/26/04 - 03/04/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
03/04/04 - 03/11/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
03/11/04 - 03/18/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
03/18/04 - 03/25/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
03/25/04 - 04/01/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
04/01/04 - 04/08/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
04/08/04 - 04/15/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
04/15/04 - 04/22/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/22/04 - 04/29/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/29/04 - 05/06/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
05/06/04 - 05/13/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
05/13/04 - 05/20/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
05/20/04 - 05/27/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
05/27/03 - 06/03/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/03/04 - 06/10/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
06/10/04 - 06/17/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/17/04 - 06/24/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/24/04 - 07/01/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/01/04 - 07/08/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
07/08/04 - 07/15/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
07/15/04 - 07/22/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
07/22/04 - 07/29/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
07/28/04 - 08/05/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
08/05/04 - 08/12/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
08/12/04 - 08/19/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.7
08/19/04 - 08/26/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
08/26/04 - 09/02/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
09/02/04 - 09/09/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
09/09/04 - 09/16/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/16/04 - 09/23/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
09/23/04 - 09/30/04	0.2 +/- 0.1	2.0 +/- 0.1	< 0.3
09/30/04 - 10/07/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
10/07/04 - 10/14/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
10/14/04 - 10/21/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
10/21/04 - 10/28/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
10/28/04 - 11/04/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
11/04/04 - 11/10/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
11/10/04 - 11/18/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.6
11/18/04 - 11/24/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.7
11/24/04 - 12/02/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
12/02/04 - 12/09/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/09/04 - 12/16/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
12/16/04 - 12/23/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/23/04 - 12/30/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3

3.C.3

LIMERICK AIR SAMPLING DATA
LINFIELD SUBSTATION (9B2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/03 - 01/08/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
01/08/04 - 01/15/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
01/15/04 - 01/22/04	0.1 +/- 0.1	0.7 +/- 0.1	< 0.2
01/22/04 - 01/30/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
01/30/04 - 02/05/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
02/05/05 - 02/12/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
02/12/04 - 02/19/04	0.2 +/- 0.1	1.9 +/- 0.1	< 0.2
02/19/04 - 02/26/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
02/26/04 - 03/04/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
03/04/04 - 03/11/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
03/11/04 - 03/18/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
03/18/04 - 03/25/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
03/25/04 - 04/01/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/01/04 - 04/08/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
04/08/04 - 04/15/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.2
04/15/04 - 04/22/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/22/04 - 04/29/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/29/04 - 05/06/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
05/06/04 - 05/13/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
05/13/04 - 05/20/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
05/20/04 - 05/27/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
05/27/03 - 06/03/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/03/04 - 06/10/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
06/10/04 - 06/17/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
06/17/04 - 06/24/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
06/24/04 - 07/01/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
07/01/04 - 07/08/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
07/08/04 - 07/15/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
07/15/04 - 07/22/04	0.2 +/- 0.1	1.3 +/- 0.1	< 0.5
07/22/04 - 07/29/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
07/28/04 - 08/05/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.5
08/05/04 - 08/12/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
08/12/04 - 08/19/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
08/19/04 - 08/26/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
08/26/04 - 09/02/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
09/02/04 - 09/09/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/09/04 - 09/16/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
09/16/04 - 09/23/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
09/23/04 - 09/30/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
09/30/04 - 10/07/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
10/07/04 - 10/14/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
10/14/04 - 10/21/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.2
10/21/04 - 10/28/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
10/28/04 - 11/04/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
11/04/04 - 11/10/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
11/10/04 - 11/18/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
11/18/04 - 11/24/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
11/24/04 - 12/02/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
12/02/04 - 12/09/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
12/09/04 - 12/16/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
12/16/04 - 12/23/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
12/23/04 - 12/30/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3

3.C.4

LIMERICK AIR SAMPLING DATA
SCHUYLKILL ROAD (13B1)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/03 - 01/08/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
01/08/04 - 01/15/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
01/15/04 - 01/22/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.2
01/22/04 - 01/30/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
01/30/04 - 02/05/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
02/05/05 - 02/12/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
02/12/04 - 02/19/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.2
02/19/04 - 02/26/04	0.2 +/- 0.1	2.0 +/- 0.1	< 0.2
02/26/04 - 03/04/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
03/04/04 - 03/11/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
03/11/04 - 03/18/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
03/18/04 - 03/25/04	0.2 +/- 0.1	1.6 +/- 0.1	< 0.2
03/25/04 - 04/01/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/01/04 - 04/08/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
04/08/04 - 04/15/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/15/04 - 04/22/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
04/22/04 - 04/29/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
04/29/04 - 05/06/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
05/06/04 - 05/13/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.2
05/13/04 - 05/20/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
05/20/04 - 05/27/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
05/27/03 - 06/03/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
06/03/04 - 06/10/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
06/10/04 - 06/17/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/17/04 - 06/24/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
06/24/04 - 07/01/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
07/01/04 - 07/08/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
07/08/04 - 07/15/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.2
07/15/04 - 07/22/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/22/04 - 07/29/04	0.2 +/- 0.1	1.2 +/- 0.1	< 0.4
07/28/04 - 08/05/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
08/05/04 - 08/12/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
08/12/04 - 08/19/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
08/19/04 - 08/26/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.2
08/26/04 - 09/02/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
09/02/04 - 09/09/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
09/09/04 - 09/16/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
09/16/04 - 09/23/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
09/23/04 - 09/30/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
09/30/04 - 10/07/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
10/07/04 - 10/14/04	0.2 +/- 0.1	2.1 +/- 0.1	< 0.3
10/14/04 - 10/21/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
10/21/04 - 10/28/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
10/28/04 - 11/04/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
11/04/04 - 11/10/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
11/10/04 - 11/18/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
11/18/04 - 11/24/04	0.1 +/- 0.1	2.1 +/- 0.2	< 0.3
11/24/04 - 12/02/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
12/02/04 - 12/09/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
12/09/04 - 12/16/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
12/16/04 - 12/23/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
12/23/04 - 12/30/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3

3.D

LIMERICK AIR PARTICULATE COMPOSITES
(fCi/m3)

Station Number	Location	Collection Period	Cs-134	Cs-137
2B2	Sanatoga Substation	12/31/03 - 4/1/04	< 0.1	< 0.1
		4/1/04 - 7/1/04	< 0.1	< 0.1
		7/1/04 - 9/30/04	< 0.1	< 0.1
		9/30/04 - 12/30/04	< 0.1	< 0.1
6A2	Information Center	12/31/03 - 4/1/04	< 0.1	< 0.1
		4/1/04 - 7/1/04	< 0.1	< 0.1
		7/1/04 - 9/30/04	< 0.1	< 0.1
		9/30/04 - 12/30/04	< 0.1	< 0.1
9B2	Linfield Substation	12/31/03 - 4/1/04	< 0.1	< 0.1
		4/1/04 - 7/1/04	< 0.1	< 0.1
		7/1/04 - 9/30/04	< 0.1	< 0.1
		9/30/04 - 12/30/04	< 0.1	< 0.1
13B1	Schuykill Road	12/31/03 - 4/1/04	< 0.1	< 0.1
		4/1/04 - 7/1/04	< 0.1	< 0.1
		7/1/04 - 9/30/04	< 0.1	< 0.1
		9/30/04 - 12/30/04	< 0.1	< 0.1

3.E.1

LIMERICK WATER SAMPLING DATA
VINCENT DAM (7B1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
2/02/04	4 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 1	< 2	< 6
3/01/04	3 +/- 1	< 180	< 2	< 4	< 2	< 2	< 3	< 3 / < 2	< 4	< 2	< 2	< 8
3/29/04	2 +/- 1	< 180	< 2	< 3	< 1	< 2	< 3	< 2 / < 2	< 3	< 1	< 1	< 6
5/03/04	2 +/- 1	< 190	< 2	< 3	< 2	< 2	< 2	< 2 / < 2	< 3	< 1	< 2	< 6
6/01/04	3 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
6/28/04	2 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 7
8/02/04	2 +/- 1	< 180	< 2	< 4	< 2	< 2	< 3	< 3 / < 2	< 4	< 2	< 2	< 9
8/30/04	2 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 2	< 2	< 2	< 4
9/27/04	2 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 6
11/01/04	3 +/- 1	< 170	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 6
11/29/04	2 +/- 1	< 170	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
1/03/05	2 +/- 1	< 190	< 1	< 3	< 1	< 2	< 2	< 2 / < 2	< 3	< 1	< 2	< 6

PHILADELPHIA SUBURBAN WATER CO. INTAKE (7H2)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
2/02/04	3 +/- 1	< 180	< 2	< 4	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 8
3/01/04	3 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 3 / < 3	< 4	< 2	< 2	< 9
3/29/04	3 +/- 1	< 180	< 1	< 3	< 1	< 1	< 3	< 2 / < 2	< 2	< 1	1 +/-1	< 6
5/03/04	2 +/- 1	< 190	< 1	< 3	< 1	< 2	< 3	< 2 / < 1	< 2	< 1	< 2	< 6
6/01/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 8
6/28/04	4 +/- 1	< 200	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 5
8/02/04	4 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 4	< 2	< 2	< 9
8/30/04	5 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 5
9/27/04	4 +/- 1	< 190	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 3	< 2	< 2	< 7
11/01/04	5 +/- 1	< 170	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 5
11/29/04	3 +/- 1	< 170	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
1/03/04	3 +/- 1	< 220	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 1	< 6

3.E.2

LIMERICK INTAKE (UPSTREAM 10A1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
2/02/04	2 +/- 1	< 190	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 6
3/01/04	4 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 4	< 2	< 2	< 9
3/29/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
5/03/04	3 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 1	< 2	< 6
6/01/04	2 +/- 1	< 190	< 2	< 3	< 2	< 2	< 4	< 3 / < 2	< 3	< 2	< 2	< 8
6/28/04	3 +/- 1	< 200	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 8
8/02/04	3 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 4	< 2	< 2	< 9
8/30/04	4 +/- 1	< 190	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 4
9/27/04	4 +/- 1	< 190	< 2	< 3	< 2	< 2	< 4	< 3 / < 2	< 3	< 2	< 2	< 7
11/01/04	4 +/- 1	< 170	< 1	< 3	< 1	< 1	< 2	< 2 / < 2	< 3	< 1	< 1	< 6
11/29/04	4 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 6
1/03/04	3 +/- 1	< 220	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7

3.F

LIMERICK MILK SAMPLING DATA
(pCi/L)

Station Number	Collection Date	I-131	Cs-134	Cs-137	Ba-140	K-40
10B1	1/13/04	< 4	< 2	< 2	< 9	1440 +/- 53
	2/10/04	< 2	< 2	< 2	< 6	1500 +/- 42
	3/09/04	< 2	< 2	< 2	< 5	1420 +/- 43
	4/06/04	< 2	< 2	< 2	< 5	1440 +/- 41
	5/04/04	< 2	< 2	< 2	< 7	1360 +/- 52
	6/01/04	< 2	< 2	< 2	< 7	1410 +/- 54
	7/13/04	< 2	< 2	< 2	< 7	1420 +/- 53
	8/10/04	< 2	< 2	< 2	< 5	1420 +/- 41
	9/07/04	< 3	< 2	< 2	< 7	1370 +/- 55
	10/05/04	< 2	< 2	< 2	< 6	1450 +/- 41
	11/02/04	< 3	< 2	< 2	< 7	1340 +/- 55
	12/14/04	< 2	< 2	< 2	< 7	1390 +/- 52
12C1	1/13/04	*				
	2/10/04	*				
	3/09/04	< 3	< 2	< 2	< 7	1320 +/- 57
	4/06/04	< 2	< 2	< 2	< 5	1390 +/- 37
	5/04/04	< 3	< 2	< 2	< 8	1330 +/- 59
	6/01/04	< 3	< 2	< 2	< 8	1360 +/- 58
	7/13/04	< 3	< 2	< 2	< 8	1370 +/- 58
	8/10/04	< 2	< 1	< 2	< 5	1460 +/- 37
	9/07/04	< 3	< 2	< 3	< 8	1440 +/- 65
	10/05/04	< 2	< 2	< 2	< 5	1390 +/- 42
	11/02/04	< 3	< 2	< 3	< 8	1420 +/- 63
	12/14/04	< 3	< 2	< 2	< 8	1280 +/- 57

* No sample available

3.G

LIMERICK FISH, PRODUCE & SEDIMENT DATA
(pCi/kg)

Isotope	Bottomfeeding Fish* 5/21/2004	Bottomfeeding Fish* 12/16/2004	Predator Fish* 5/21/2004	Predator Fish* 12/16/2004	Produce* 9/16/2004	Sediment** 6/15/2004	Sediment** 12/27/2004
I-131	< 5	< 7	< 5	< 8	< 5	< 10	< 20
Mn-54	< 3	< 3	< 4	< 3	< 2	< 6	< 9
Fe-59	< 8	< 8	< 9	< 8	< 6	< 13	< 19
Co-58	< 3	< 3	< 4	< 3	< 3	< 6	< 8
Co-60	< 4	< 3	< 4	< 4	< 3	< 7	< 9
Zn-65	< 8	< 8	< 9	< 8	< 5	< 14	< 19
Zr-Nb-95	< 5/< 4	< 6/< 4	< 6/< 4	< 6/< 4	< 4/< 3	< 11/< 8	< 16/< 11
Cs-134	< 3	< 3	< 3	< 3	< 2	< 5	< 7
Cs-137	< 3	< 3	< 4	< 3	< 2	99 +/- 6	82 +/- 8
Ba-140	< 12	< 17	< 14	< 17	< 12	< 27	< 46

* Wet Weight
** Dry Weight

4.A

PEACH BOTTOM ATOMIC POWER STATION
QUARTERLY TLD INTERCOMPARISON
(mR/std. mo.)

Station Number	Location	Collection Period	Global Results	Proxtronics Results
1D1	Silver Spring Road	1/5/04 - 4/5/04	3.5 +/- 0.3	2.3 +/- 0.5
		4/5/04 - 7/6/04	3.3 +/- 0.3	4.1 +/- 0.4
		7/6/04 - 10/5/04	4.4 +/- 0.7	5.0 +/- 0.1
		10/5/04 - 1/3/05	4.1 +/- 0.5	5.7 +/- 1.1
5B1	Peter's Creek	1/5/04 - 4/5/04	4.1 +/- 0.3	3.5 +/- 0.8
		4/5/04 - 7/6/04	3.4 +/- 0.3	4.2 +/- 0.2
		7/6/04 - 10/5/04	4.7 +/- 0.3	5.0 +/- 0.4
		10/5/04 - 1/3/05	4.1 +/- 0.6	3.3 +/- 0.0
7A1	Burk's Hill	1/5/04 - 4/5/04	3.7 +/- 0.2	3.9 +/- 0.3
		4/5/04 - 7/6/04	3.3 +/- 0.2	4.1 +/- 1
		7/6/04 - 10/5/04	4.3 +/- 0.7	4.7 +/- 1
		10/5/04 - 1/3/05	4.3 +/- 0.8	5.8 +/- 1
11D1	Delta	1/5/04 - 4/5/04	2.5 +/- 1.1	0.9 +/- 0.1
		4/5/04 - 7/6/04	2.2 +/- 0.7	2.5 +/- 0.2
		7/6/04 - 10/5/04	3.1 +/- 1.8	2.2 +/- 0.2
		10/5/04 - 1/3/05	3.0 +/- 1.5	2.3 +/- 0.5
			43.6 +/- 4.3	44.7 +/- 3.1

4.B

PEACH BOTTOM ATOMIC POWER STATION
THERMOLUMINESCENCE DOSIMETRY (TLD) DATA
(mR/std. mo.)

Location	1/5/04 to 4/5/04	4/5/04 to 7/6/04	7/6/04 to 10/5/04	10/5/04 to 1/3/05	Annual Dose
01D1 Silver Spring Road	3.5 +/- 0.3	3.3 +/- 0.3	4.4 +/- 0.7	4.1 +/- 0.5	45.9 +/- 2.8
02C1 Bald Eagle Road	3.9 +/- 0.1	3.4 +/- 0.2	4.6 +/- 0.5	5.1 +/- 0.6	50.7 +/- 2.3
02F1 Drumore Twp. School	4.2 +/- 0.4	3.7 +/- 0.5	4.9 +/- 0.3	5.4 +/- 0.7	54.6 +/- 3.1
02L1 Quarryville	3.6 +/- 0.2	3.4 +/- 0.2	4.1 +/- 0.9	3.9 +/- 0.7	44.7 +/- 3.6
03C1 Slate Hill Road	4.1 +/- 0.3	3.4 +/- 0.4	5.1 +/- 0.3	4.9 +/- 0.5	52.6 +/- 2.5
03F1 Goshen Mill Road	3.6 +/- 0.2	3.2 +/- 0.1	4.5 +/- 0.7	4.2 +/- 0.5	46.6 +/- 2.7
04B1 Fulton Weather Station	2.9 +/- 0.8	2.5 +/- 0.5	3.5 +/- 1.4	3.4 +/- 1.2	36.8 +/- 6.3
04D1 Keeney Power Line	3.4 +/- 0.5	3.5 +/- 0.4	4.9 +/- 0.3	5.1 +/- 0.7	50.6 +/- 3.1
05B1 Peter's Creek	4.1 +/- 0.3	3.4 +/- 0.3	4.7 +/- 0.3	4.1 +/- 0.6	49.2 +/- 2.3
05C1 Peach Bottom Road	3.7 +/- 0.3	3.4 +/- 0.3	5.2 +/- 0.3	5.0 +/- 0.3	52.0 +/- 1.7
05E1 Wakefield	3.1 +/- 0.7	2.6 +/- 0.4	4.1 +/- 0.9	3.8 +/- 0.8	41.0 +/- 4.3
06A1 B Cooling Tower	2.2 +/- 1.4	2.3 +/- 0.7	3.0 +/- 1.8	3.6 +/- 1.1	33.4 +/- 7.9
06D1 Riverview Road	4.2 +/- 0.3	4.1 +/- 0.9	4.7 +/- 0.5	5.2 +/- 0.5	54.5 +/- 3.4
07A1 Burk's Hill	3.7 +/- 0.2	3.3 +/- 0.2	4.3 +/- 0.7	4.3 +/- 0.8	46.9 +/- 3.5
07A5 D & E Cooling Tower	2.8 +/- 0.9	2.7 +/- 0.3	3.7 +/- 1.2	3.7 +/- 0.9	39.0 +/- 5.2
07A6 Burk Trailer	2.9 +/- 0.8	3.2 +/- 0.4	4.1 +/- 0.9	4.3 +/- 0.5	43.4 +/- 4.0
07B1 Canal Discharge	2.6 +/- 1.0	1.8 +/- 1.1	2.4 +/- 2.4	2.4 +/- 2.0	27.7 +/- 10.3
07E1 Pilottown Road	2.9 +/- 0.8	2.8 +/- 0.3	3.6 +/- 1.3	3.7 +/- 0.9	38.9 +/- 5.5
07H1 Conowingo, MD	3.1 +/- 0.6	2.6 +/- 0.4	3.5 +/- 1.5	3.7 +/- 0.9	38.7 +/- 5.7
08A1 SSE Sector Hill	3.9 +/- 0.2	3.4 +/- 0.3	6.3 +/- 2.8	5.4 +/- 0.8	57.0 +/- 8.7
08A2 Transmission Line Hill	4.6 +/- 0.7	4.0 +/- 0.8	5.1 +/- 0.4	5.4 +/- 1.2	57.4 +/- 5.0
08A3 Burk Residence	3.2 +/- 0.5	3.2 +/- 0.0	4.2 +/- 0.8	4.1 +/- 0.5	44.2 +/- 3.2
08E1 Broad Creek	3.1 +/- 0.6	3.1 +/- 0.1	3.9 +/- 1.1	3.9 +/- 0.7	42.0 +/- 4.2
08J1 Darlington, MD	2.8 +/- 0.9	2.3 +/- 0.7	3.7 +/- 1.2	3.2 +/- 1.3	36.0 +/- 6.4
09A1 South Substation Road	3.2 +/- 0.5	3.3 +/- 0.3	4.7 +/- 0.4	4.6 +/- 0.1	47.4 +/- 2.1
09C1 North Cooper Road	4.2 +/- 0.4	3.4 +/- 0.2	4.2 +/- 0.8	4.4 +/- 0.3	48.8 +/- 2.8
10E1 Macton Substation	3.7 +/- 0.1	3.2 +/- 0.3	4.6 +/- 0.5	4.5 +/- 0.2	48.3 +/- 1.9
11B1 Atom Road	4.4 +/- 0.5	4.1 +/- 0.9	5.7 +/- 1.5	5.0 +/- 0.4	57.4 +/- 5.7
11D1 Delta	2.5 +/- 1.1	2.2 +/- 0.7	3.1 +/- 1.8	3.0 +/- 1.5	32.7 +/- 8.0
12E1 Conastone Line	3.7 +/- 0.4	3.1 +/- 0.2	4.2 +/- 0.8	5.2 +/- 0.8	48.7 +/- 3.6
13F1 Transco Pipeline	3.9 +/- 0.1	3.9 +/- 0.7	5.3 +/- 0.1	4.7 +/- 0.1	53.2 +/- 2.2
13K1 Fawn Grove	4.3 +/- 0.5	3.4 +/- 0.3	4.6 +/- 0.5	4.7 +/- 0.2	51.1 +/- 2.4
14E1 Fin Substation	3.2 +/- 0.6	3.2 +/- 0.4	4.7 +/- 0.4	4.3 +/- 0.3	46.4 +/- 2.6
14K1 Airville	3.7 +/- 0.1	3.3 +/- 0.2	4.4 +/- 0.7	4.2 +/- 0.4	47.0 +/- 2.4
15E1 Slab Road	4.0 +/- 0.2	3.7 +/- 0.5	5.0 +/- 0.4	4.8 +/- 0.2	52.6 +/- 2.2
16E1 Muddy Run	3.4 +/- 0.3	3.1 +/- 0.0	3.6 +/- 1.3	3.8 +/- 0.8	42.0 +/- 4.7
				Annual Average:	46.1 +/- 4.1

*Control corrected-net exposure.

4.C.1

PEACH BOTTOM AIR SAMPLING DATA
SLATE HILL ROAD (3C2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/30/03 - 01/05/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
01/05/04 - 01/13/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.2
01/13/04 - 01/20/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.2
01/20/04 - 01/27/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/27/04 - 02/04/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
02/04/04 - 02/10/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
02/10/04 - 02/17/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
02/17/04 - 02/24/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
02/24/04 - 03/02/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
03/02/04 - 03/09/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
03/09/04 - 03/16/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
03/16/04 - 03/23/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
03/23/04 - 03/30/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
03/30/04 - 04/05/04	< 0.1	0.4 +/- 0.1	< 0.4
04/05/04 - 04/13/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/13/04 - 04/20/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
04/20/04 - 04/27/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/27/04 - 05/04/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
05/04/04 - 05/11/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
05/11/04 - 05/18/04	0.2 +/- 0.1	2.3 +/- 0.1	< 0.3
05/18/04 - 05/25/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
05/25/04 - 06/01/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
06/01/04 - 06/09/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.5
06/09/04 - 06/15/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/15/04 - 06/22/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/22/04 - 06/29/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
06/29/04 - 07/06/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
07/06/04 - 07/13/04	* No data available-sampler malfunction		
07/13/04 - 07/20/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
07/20/04 - 07/27/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/27/04 - 08/03/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
08/03/04 - 08/11/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
08/11/04 - 08/17/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
08/17/04 - 08/24/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
08/24/04 - 08/31/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
08/31/04 - 09/07/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
09/07/04 - 09/14/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
09/14/04 - 09/21/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
09/21/04 - 09/28/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.4
09/28/04 - 10/05/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
10/05/04 - 10/12/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
10/12/04 - 10/19/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
10/19/04 - 10/26/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
10/26/04 - 11/02/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
11/02/04 - 11/09/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
11/09/04 - 11/16/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
11/16/04 - 11/23/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.4
11/23/04 - 11/30/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
11/30/04 - 12/07/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.6
12/07/04 - 12/14/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.7
12/14/04 - 12/21/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
12/21/04 - 12/28/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3

4.C.2
PEACH BOTTOM AIR SAMPLING DATA
PETER'S CREEK (5B2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/30/03 - 01/05/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
01/05/04 - 01/13/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
01/13/04 - 01/20/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
01/20/04 - 01/27/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
01/27/04 - 02/04/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
02/04/04 - 02/10/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
02/10/04 - 02/17/04	0.2 +/- 0.1	2.2 +/- 0.1	< 0.2
02/17/04 - 02/24/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
02/24/04 - 03/02/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
03/02/04 - 03/09/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
03/09/04 - 03/16/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
03/16/04 - 03/23/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
03/23/04 - 03/30/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
03/30/04 - 04/05/04	< 0.1	0.4 +/- 0.1	< 0.4
04/05/04 - 04/13/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
04/13/04 - 04/20/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
04/20/04 - 04/27/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
04/27/04 - 05/04/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
05/04/04 - 05/11/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
05/11/04 - 05/18/04	0.1 +/- 0.1	2.4 +/- 0.1	< 0.4
05/18/04 - 05/25/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
05/25/04 - 06/01/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/01/04 - 06/09/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
06/09/04 - 06/15/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
06/15/04 - 06/22/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/22/04 - 06/29/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
06/29/04 - 07/06/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
07/06/04 - 07/13/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
07/13/04 - 07/20/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
07/20/04 - 07/27/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
07/27/04 - 08/03/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
08/03/04 - 08/11/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
08/11/04 - 08/17/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
08/17/04 - 08/24/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
08/24/04 - 08/31/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
08/31/04 - 09/07/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
09/07/04 - 09/14/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/14/04 - 09/21/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
09/21/04 - 09/28/04	0.1 +/- 0.1	2.6 +/- 0.1	< 0.5
09/28/04 - 10/05/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
10/05/04 - 10/12/04	0.2 +/- 0.1	1.9 +/- 0.1	< 0.4
10/12/04 - 10/19/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
10/19/04 - 10/26/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
10/26/04 - 11/02/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
11/02/04 - 11/09/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
11/09/04 - 11/16/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
11/16/04 - 11/23/04	0.1 +/- 0.1	2.3 +/- 0.1	< 0.3
11/23/04 - 11/30/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
11/30/04 - 12/07/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
12/07/04 - 12/14/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
12/14/04 - 12/21/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/21/04 - 12/28/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3

4.C.3
PEACH BOTTOM AIR SAMPLING DATA
South Substation (9A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/30/03 - 01/05/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
01/05/04 - 01/13/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
01/13/04 - 01/20/04	< 0.1	0.9 +/- 0.1	< 0.3
01/20/04 - 01/27/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
01/27/04 - 02/04/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
02/04/04 - 02/10/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
02/10/04 - 02/17/04	0.2 +/- 0.1	2.2 +/- 0.1	< 0.3
02/17/04 - 02/24/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
02/24/04 - 03/02/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
03/02/04 - 03/09/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
03/09/04 - 03/16/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
03/16/04 - 03/23/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.2
03/23/04 - 03/30/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
03/30/04 - 04/05/04	0.1 +/- 0.1	0.4 +/- 0.1	< 0.5
04/05/04 - 04/13/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
04/13/04 - 04/20/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
04/20/04 - 04/27/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
04/27/04 - 05/04/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
05/04/04 - 05/11/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
05/11/04 - 05/18/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
05/18/04 - 05/25/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
05/25/04 - 06/01/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
06/01/04 - 06/09/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
06/09/04 - 06/15/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
06/15/04 - 06/22/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/22/04 - 06/29/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
06/29/04 - 07/06/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
07/06/04 - 07/13/04	* No data available-sampler malfunction		
07/13/04 - 07/20/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
07/20/04 - 07/27/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
07/27/04 - 08/03/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
08/03/04 - 08/11/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
08/11/04 - 08/17/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
08/17/04 - 08/24/04	0.1 +/- 0.1	2.3 +/- 0.1	< 0.6
08/24/04 - 08/31/04	* No data available-sampler malfunction		
08/31/04 - 09/07/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.6
09/07/04 - 09/14/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
09/14/04 - 09/21/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
09/21/04 - 09/28/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
09/28/04 - 10/05/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
10/05/04 - 10/12/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
10/12/04 - 10/19/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
10/19/04 - 10/26/04	0.1 +/- 0.1	0.7 +/- 0.1	< 0.4
10/26/04 - 11/02/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
11/02/04 - 11/09/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
11/09/04 - 11/16/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
11/16/04 - 11/23/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.5
11/23/04 - 11/30/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
11/30/04 - 12/07/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
12/07/04 - 12/14/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
12/14/04 - 12/21/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
12/21/04 - 12/28/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3

4.C.4
PEACH BOTTOM AIR SAMPLING DATA
DELTA (11D2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/30/03 - 01/05/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
01/05/04 - 01/13/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
01/13/04 - 01/20/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.5
01/20/04 - 01/27/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
01/27/04 - 02/04/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
02/04/04 - 02/10/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
02/10/04 - 02/17/04	0.2 +/- 0.1	2.4 +/- 0.1	< 0.3
02/17/04 - 02/24/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
02/24/04 - 03/02/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
03/02/04 - 03/09/04	0.2 +/- 0.1	1.2 +/- 0.1	< 0.4
03/09/04 - 03/16/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
03/16/04 - 03/23/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
03/23/04 - 03/30/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
03/30/04 - 04/05/04	< 0.1	0.4 +/- 0.1	< *
04/05/04 - 04/13/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
04/13/04 - 04/20/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
04/20/04 - 04/27/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
04/27/04 - 05/04/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
05/04/04 - 05/11/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
05/11/04 - 05/18/04	0.2 +/- 0.1	2.1 +/- 0.1	< 0.3
05/18/04 - 05/25/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
05/25/04 - 06/01/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
06/01/04 - 06/09/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
06/09/04 - 06/15/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/15/04 - 06/22/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/22/04 - 06/29/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
06/29/04 - 07/06/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
07/06/04 - 07/13/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
07/13/04 - 07/20/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
07/20/04 - 07/27/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
07/27/04 - 08/03/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
08/03/04 - 08/11/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
08/11/04 - 08/17/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
08/17/04 - 08/24/04	0.2 +/- 0.1	2.2 +/- 0.1	< 0.4
08/24/04 - 08/31/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
08/31/04 - 09/07/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
09/07/04 - 09/14/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/14/04 - 09/21/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.6
09/21/04 - 09/28/04	* No data available-sampler malfunction		
09/28/04 - 10/05/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
10/05/04 - 10/12/04	0.2 +/- 0.1	1.9 +/- 0.1	< 0.3
10/12/04 - 10/19/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
10/19/04 - 10/26/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
10/26/04 - 11/02/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
11/02/04 - 11/09/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
11/09/04 - 11/16/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
11/16/04 - 11/23/04	0.1 +/- 0.1	2.4 +/- 0.1	< 0.5
11/23/04 - 11/30/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
11/30/04 - 12/07/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
12/07/04 - 12/14/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.5
12/14/04 - 12/21/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
12/21/04 - 12/28/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3

4.D

PEACH BOTTOM AIR PARTICULATE COMPOSITES
(fCi/m3)

Station Number	Location	Collection Period	Cs-134	Cs-137
3C2	Slate Hill Rd.	12/30/03 - 3/30/04	< 0.1	< 0.1
		3/30/04 - 6/29/04	< 0.1	< 0.1
		6/29/04 - 9/28/04	< 0.1	< 0.1
		9/28/04 - 12/30/04	< 0.1	< 0.1
5B2	Peter's Creek	12/30/03 - 3/30/04	< 0.1	< 0.1
		3/30/04 - 6/29/04	< 0.1	< 0.1
		6/29/04 - 9/28/04	< 0.1	< 0.1
		9/28/04 - 12/30/04	< 0.1	< 0.1
9A2	Burk's Hill	12/30/03 - 3/30/04	< 0.1	< 0.1
		3/30/04 - 6/29/04	< 0.1	< 0.1
		6/29/04 - 9/28/04	< 0.1	< 0.1
		9/28/04 - 12/30/04	< 0.1	< 0.1
11D2	Delta	12/30/03 - 3/30/04	< 0.1	< 0.1
		3/30/04 - 6/29/04	< 0.1	< 0.1
		6/29/04 - 9/28/04	< 0.1	< 0.1
		9/28/04 - 12/30/04	< 0.1	< 0.1

4.E

PEACH BOTTOM WATER SAMPLING DATA
CONOWINGO DAM (7J1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/30/04	2 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 4	< 2	< 2	< 11
3/06/04	< 2	< 170	< 1	< 2	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
4/02/04	2 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 5
4/30/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 6
6/04/04	< 2	< 180	< 1	< 3	< 2	< 1	< 3	< 2 / < 2	< 2	< 2	< 2	< 6
7/02/04	2 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 3	< 2	< 2	< 8
7/29/04	2 +/- 1	< 180	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
9/03/04	2 +/- 1	< 180	< 1	< 3	< 3	< 1	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
10/01/04	3 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 4
11/05/04	2 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 3 / < 3	< 4	< 2	< 2	< 10
12/05/04	2 +/- 1	< 170	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 3	< 2	< 2	< 7
12/31/04	1 +/- 1	< 180	< 1	< 2	< 1	< 2	< 3	< 2 / < 1	< 2	< 1	< 2	< 5

HOLTWOOD HYDROELECTRIC ELECTRIC PLANT (15F1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/30/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 4	< 2	< 2	< 8
3/06/04	2 +/- 1	< 170	< 1	< 3	< 1	< 1	< 3	< 2 / < 1	< 2	< 1	< 2	< 5
4/02/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 6
4/30/04	2 +/- 1	< 180	< 2	< 4	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
6/04/04	< 2	< 180	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 6
7/02/04	3 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
7/29/04	2 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 4
9/03/04	2 +/- 1	< 180	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 6
10/01/04	2 +/- 1	< 180	< 1	< 2	< 1	< 1	< 3	< 2 / < 1	< 2	< 1	< 2	< 5
11/05/04	2 +/- 1	< 180	< 2	< 4	< 2	< 2	< 3	< 3 / < 2	< 4	< 2	< 2	< 10
12/05/04	2 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 5
12/31/04	2 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 4

4.F

PEACH BOTTOM MILK SAMPLING DATA

(pCi/L)

Station Number	Collection Date	I-131	Cs-134	Cs-137	Ba-140	K-40
13A1	1/19/04	< 3	< 2	< 2	< 7	1380 +/- 57
	2/16/04	< 2	< 1	< 2	< 5	1480 +/- 37
	3/13/04	< 3	< 2	< 2	< 7	1370 +/- 53
	4/12/04	< 2	< 1	< 2	< 5	1400 +/- 36
	5/10/04	< 3	< 2	< 2	< 7	1320 +/- 56
	6/07/04	< 3	< 2	< 2	< 8	1390 +/- 59
	7/05/04	< 2	< 2	< 2	< 6	1330 +/- 40
	7/29/04	< 2	< 1	< 2	< 6	1420 +/- 36
	9/13/04	< 3	< 2	< 2	< 7	1360 +/- 59
	10/11/04	< 3	< 2	< 3	< 8	1390 +/- 63
	11/08/04	< 4	< 2	< 2	< 11	1430 +/- 59
	12/18/04	< 3	< 2	2 +/- 1	< 8	1500 +/- 59
09A1	1/18/04	< 3	< 2	< 3	< 8	1300 +/- 58
	2/15/04	< 2	< 2	< 2	< 6	1360 +/- 41
	3/13/04	< 3	< 2	< 2	< 8	1350 +/- 60
	4/11/04	< 2	< 2	< 2	< 5	1300 +/- 41
	5/10/04	< 3	< 2	< 2	< 8	1320 +/- 58
	6/06/04	< 3	< 2	< 2	< 7	1310 +/- 51
	7/04/04	< 2	< 2	< 2	< 6	1330 +/- 42
	7/29/04	< 3	< 2	< 2	< 7	1380 +/- 42
	9/12/04	< 2	< 2	< 2	< 6	1270 +/- 48
	10/10/04	< 3	< 2	< 2	< 9	1310 +/- 58
	11/07/04	< 4	< 2	< 2	< 9	1250 +/- 52
	12/18/04	< 2	< 2	< 2	< 7	1280 +/- 49

4.G

PEACH BOTTOM FISH, PRODUCE & SEDIMENT DATA
(pCi/kg)

Isotope	Produce* 10/26/2004	Sediment** 11/18/2004	Predator Fish* 11/8/2004	Bottomfeeding Fish* 11/3/2004
I-131	< 48	< 29	< 69	< 114
Mn-54	< 8	< 4	< 3	< 3
Fe-59	< 22	< 12	< 10	< 11
Co-58	< 8	< 5	< 3	< 4
Co-60	< 9	14 +/- 4	< 3	< 3
Zn-65	< 15	< 11	< 7	< 7
Zr-Nb-95	< 15/< 12	< 9/< 7	< 6/< 5	< 6/< 6
Cs-134	< 7	< 3	< 2	< 2
Cs-137	< 8	24 +/- 4	< 3	5 +/- 3
Ba-140	< 77	< 46	< 61	< 90

* Wet Weigh
** Dry Weight

5.A

SUSQUEHANNA STEAM ELECTRIC STATION
QUARTERLY TLD INTERCOMPARISON
(mR/std. mo.)

Station Number	Location	Collection Period	Global Results	Proxtronics Results
1D1	Mocanaqua	1/7/04 - 4/7/04	3.7 +/- 0.6	2.5 +/- 0.8
		4/7/04 - 7/1/04	3.4 +/- 0.3	5.6 +/- 0.3
		7/1/04 - 10/7/04	4.4 +/- 0.1	6.3 +/- 0.2
		10/7/04 - 1/4/05	3.3 +/- 0.4	4.7 +/- 1.0
2A1	Information Center	1/7/04 - 4/7/04	3.7 +/- 0.7	3.7 +/- 0.4
		4/7/04 - 7/1/04	3.3 +/- 0.2	4.3 +/- 0.3
		7/1/04 - 10/7/04	3.6 +/- 0.7	3.8 +/- 0.3
		10/7/04 - 1/4/05	3.3 +/- 1.2	2.3 +/- 0.2
7B1	Wapwallopen	1/7/04 - 4/7/04	3.2 +/- 1.1	3.5 +/- 0.7
		4/7/04 - 7/1/04	3.2 +/- 0.1	4.4 +/- 0.9
		7/1/04 - 10/7/04	3.8 +/- 0.5	5.4 +/- 0.9
		10/7/04 - 1/4/05	4.0 +/- 0.7	3.6 +/- 1.0
12F1	Berwick Substation	1/7/04 - 4/7/04	4.4 +/- 0.2	3.5 +/- 0.5
		4/7/04 - 7/1/04	3.5 +/- 0.2	3.5 +/- 1.5
		7/1/04 - 10/7/04	3.7 +/- 0.8	3.4 +/- 0.0
		10/7/04 - 1/4/05	3.7 +/- 0.9	3.3 +/- 1.2
			43.7 +/- 3.5	47.9 +/- 4.4

5.B

SUSQUEHANNA STEAM ELECTRIC STATION
THERMOLUMINESCENCE DOSIMETRY (TLD) DATA
(mR/std. mo.)

Location	1/7/04 to 4/1/04	4/1/04 to 7/1/04	7/1/04 to 10/7/04	10/7/04 to 1/4/05	Annual Dose
01D1 Mocanaqua	3.7 +/- 0.6	3.4 +/- 0.3	4.4 +/- 0.1	4.2 +/- 0.4	47.2 +/- 2.5
02A1 InformationCenter	3.7 +/- 0.7	3.3 +/- 0.2	3.6 +/- 0.7	3.3 +/- 1.2	41.7 +/- 4.7
03D1 Pond Hill	4.1 +/- 0.8	3.1 +/- 0.1	3.5 +/- 0.7	3.8 +/- 0.8	43.9 +/- 4.1
03K1 Nanticoke	4.0 +/- 0.4	3.0 +/- 0.4	3.5 +/- 0.8	3.4 +/- 1.1	41.6 +/- 4.4
03M1 Wilkes-Barre	4.3 +/- 0.2	3.3 +/- 0.3	4.2 +/- 0.2	4.0 +/- 0.6	47.7 +/- 2.1
04A1 PP&L Construction Dept.	3.9 +/- 0.4	3.2 +/- 0.1	4.0 +/- 0.5	3.6 +/- 1.0	44.2 +/- 3.4
04E1 Ruckles Hill Road	3.6 +/- 0.7	3.5 +/- 0.4	4.0 +/- 0.4	3.8 +/- 0.7	44.9 +/- 3.3
05A1 Biological Lab	3.5 +/- 1.0	2.7 +/- 0.5	3.4 +/- 0.8	3.2 +/- 1.2	38.5 +/- 5.6
05E1 Bloss Farm	4.4 +/- 1.6	3.2 +/- 0.1	4.0 +/- 0.3	3.8 +/- 0.8	46.3 +/- 5.6
06A1 SSES Sewage Plant	3.5 +/- 0.8	3.1 +/- 0.2	3.7 +/- 0.6	3.4 +/- 1.1	41.2 +/- 4.5
06A2 River Water Intake	3.7 +/- 0.6	3.0 +/- 0.2	3.5 +/- 0.8	3.3 +/- 1.3	40.4 +/- 4.8
06D1 Hobbie	3.3 +/- 1.0	3.2 +/- 0.4	3.9 +/- 0.5	3.8 +/- 0.8	42.4 +/- 4.3
06L1 Freeland	3.7 +/- 0.6	4.3 +/- 1.1	4.6 +/- 0.4	4.9 +/- 0.3	52.9 +/- 4.0
07B1 Wapwallopen	3.2 +/- 1.1	3.2 +/- 0.1	3.8 +/- 0.5	4.0 +/- 0.7	42.4 +/- 4.1
07B2 Heller's Orchard	3.7 +/- 0.8	3.0 +/- 0.2	3.4 +/- 0.8	4.6 +/- 1.3	44.1 +/- 5.2
07L1 Hazelton	3.2 +/- 1.1	3.2 +/- 0.3	3.6 +/- 0.7	3.9 +/- 0.7	41.8 +/- 4.5
09B1 South Transmission Line	3.1 +/- 1.1	2.8 +/- 0.3	3.5 +/- 0.7	2.8 +/- 1.7	36.6 +/- 6.4
09M1 Shenandoah	2.8 +/- 1.4	2.6 +/- 0.5	3.2 +/- 1.0	3.2 +/- 1.3	35.2 +/- 6.8
10B1 Beach Haven/Gen Tank	3.2 +/- 1.0	3.0 +/- 0.2	Missing	3.6 +/- 1.0	29.4 +/- 4.2
11A1 Golomb House	3.4 +/- 0.9	3.3 +/- 0.2	4.2 +/- 0.4	3.9 +/- 0.8	44.0 +/- 3.8
11F1 Nescopeck	3.3 +/- 0.9	3.0 +/- 0.2	4.9 +/- 1.3	3.8 +/- 0.8	45.0 +/- 5.4
12A1 WSW Perimeter Fence	5.0 +/- 0.7	3.8 +/- 0.8	4.4 +/- 0.3	5.3 +/- 0.8	55.5 +/- 4.1
12F1 Berwick Substation	4.4 +/- 0.2	3.1 +/- 0.2	3.5 +/- 0.8	3.7 +/- 0.9	44.1 +/- 3.6
12L1 Bloomsburg	3.2 +/- 1.1	2.8 +/- 0.3	3.6 +/- 0.6	3.3 +/- 1.2	38.6 +/- 5.2
13A1 West Perimeter Fence	4.0 +/- 0.4	4.0 +/- 0.7	4.5 +/- 0.2	4.6 +/- 0.1	51.1 +/- 2.6
14A1 WNW Perimeter Fence	4.3 +/- 0.1	3.3 +/- 0.4	4.8 +/- 1.8	4.0 +/- 0.6	49.3 +/- 5.8
15A1 Serafin Farm	3.1 +/- 1.1	3.6 +/- 0.4	3.8 +/- 0.6	3.8 +/- 0.9	42.9 +/- 4.7
16A1 NNW Perimeter Fence	4.9 +/- 0.7	4.1 +/- 0.9	4.7 +/- 0.3	4.9 +/- 0.3	55.8 +/- 3.7
16A2 Rupinski Farm	2.8 +/- 1.4	3.1 +/- 0.0	3.2 +/- 1.0	3.9 +/- 0.7	38.9 +/- 5.6
16B1 Walton Power Line	3.7 +/- 1.0	2.9 +/- 0.3	8.2 +/- 7.9	3.6 +/- 1.0	55.1 +/- 24.2
*Control corrected-net exposure.				Annual Average:	44.1 +/- 5.1

5.C.1
SUSQUEHANNA STEAM AIR SAMPLING DATA
BEACH GROVE ROAD (3A1)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/30/03 - 01/07/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
01/07/04 - 01/14/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
01/14/04 - 01/21/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
01/21/04 - 01/29/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/29/04 - 02/04/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
02/04/04 - 02/11/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
02/11/04 - 02/18/04	0.2 +/- 0.1	2.1 +/- 0.1	< 0.3
02/18/04 - 02/25/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
02/25/04 - 03/03/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
03/03/04 - 03/10/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
03/10/04 - 03/17/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
03/17/04 - 03/24/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
03/24/04 - 04/01/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
04/01/04 - 04/07/04	0.1 +/- 0.1	0.7 +/- 0.1	< 0.5
04/07/04 - 04/14/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
04/14/04 - 04/21/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/21/04 - 04/28/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.2
04/28/04 - 05/05/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
05/05/04 - 05/12/05	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
05/12/04 - 05/19/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
05/19/04 - 05/26/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
05/26/04 - 06/02/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
06/02/04 - 06/09/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
06/09/04 - 06/16/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
06/16/04 - 06/23/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
06/23/04 - 07/01/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
07/01/04 - 07/07/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
07/07/04 - 07/14/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
07/14/04 - 07/21/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
07/21/04 - 07/28/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
07/28/04 - 08/04/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
08/04/04 - 08/11/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
08/11/04 - 08/18/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
08/18/04 - 08/25/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
08/25/04 - 09/01/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
09/01/04 - 09/08/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
09/08/04 - 09/15/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/15/04 - 09/22/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
09/22/04 - 09/29/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
09/29/04 - 10/07/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
10/07/04 - 10/13/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
10/13/04 - 10/20/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
10/20/04 - 10/27/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
10/27/04 - 11/03/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
11/03/04 - 11/10/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
11/10/04 - 11/17/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
11/17/04 - 11/24/04	0.1 +/- 0.1	2.0 +/- 0.2	< 0.4
11/24/04 - 12/01/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
12/01/04 - 12/08/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
12/08/04 - 12/15/04	0.1 +/- 0.1	0.7 +/- 0.1	< 0.2
12/15/04 - 12/22/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
12/22/04 - 12/29/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2

5.C.2
SUSQUEHANNA STEAM AIR SAMPLING DATA
BIOLOGICAL LABORATORY (5A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/30/03 - 01/07/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
01/07/04 - 01/14/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
01/14/04 - 01/21/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
01/21/04 - 01/29/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/29/04 - 02/04/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
02/04/04 - 02/11/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
02/11/04 - 02/18/04	0.2 +/- 0.1	2.0 +/- 0.1	< 0.3
02/18/04 - 02/25/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
02/25/04 - 03/03/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
03/03/04 - 03/10/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.6
03/10/04 - 03/17/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
03/17/04 - 03/24/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
03/24/04 - 04/01/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/01/04 - 04/07/04	< 0.1	0.7 +/- 0.1	< 0.5
04/07/04 - 04/14/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
04/14/04 - 04/21/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/21/04 - 04/28/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
04/28/04 - 05/05/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
05/05/04 - 05/12/05	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
05/12/04 - 05/19/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.6
05/19/04 - 05/26/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
05/26/04 - 06/02/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/02/04 - 06/09/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
06/09/04 - 06/16/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/16/04 - 06/23/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/23/04 - 07/01/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
07/01/04 - 07/07/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
07/07/04 - 07/14/04	0.1 +/- 0.1	0.7 +/- 0.1	< 0.5
07/14/04 - 07/21/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
07/21/04 - 07/28/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
07/28/04 - 08/04/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
08/04/04 - 08/11/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
08/11/04 - 08/18/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
08/18/04 - 08/25/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
08/25/04 - 09/01/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
09/01/04 - 09/08/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
09/08/04 - 09/15/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/15/04 - 09/22/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
09/22/04 - 09/29/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.4
09/29/04 - 10/07/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
10/07/04 - 10/13/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
10/13/04 - 10/20/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
10/20/04 - 10/27/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
10/27/04 - 11/03/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.7
11/03/04 - 11/10/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
11/10/04 - 11/17/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
11/17/04 - 11/24/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.4
11/24/04 - 12/01/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.5
12/01/04 - 12/08/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
12/08/04 - 12/15/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
12/15/04 - 12/22/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
12/22/04 - 12/29/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2

5.C.3
SUSQUEHANNA STEAM AIR SAMPLING DATA
EMERGENCY OPERATING FACILITY (12A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/30/03 - 01/07/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
01/07/04 - 01/14/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
01/14/04 - 01/21/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
01/21/04 - 01/29/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
01/29/04 - 02/04/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
02/04/04 - 02/11/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
02/11/04 - 02/18/04	0.2 +/- 0.1	2.1 +/- 0.1	< 0.3
02/18/04 - 02/25/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
02/25/04 - 03/03/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
03/03/04 - 03/10/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
03/10/04 - 03/17/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
03/17/04 - 03/24/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
03/24/04 - 04/01/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/01/04 - 04/07/04	0.1 +/- 0.1	0.7 +/- 0.1	< 0.4
04/07/04 - 04/14/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/14/04 - 04/21/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/21/04 - 04/28/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
04/28/04 - 05/05/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
05/05/04 - 05/12/05	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
05/12/04 - 05/19/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
05/19/04 - 05/26/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
05/26/04 - 06/02/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
06/02/04 - 06/09/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.6
06/09/04 - 06/16/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/16/04 - 06/23/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/23/04 - 07/01/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
07/01/04 - 07/07/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
07/07/04 - 07/14/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.5
07/14/04 - 07/21/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
07/21/04 - 07/28/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
07/28/04 - 08/04/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
08/04/04 - 08/11/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
08/11/04 - 08/18/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
08/18/04 - 08/25/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.5
08/25/04 - 09/01/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
09/01/04 - 09/08/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
09/08/04 - 09/15/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
09/15/04 - 09/22/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
09/22/04 - 09/29/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
09/29/04 - 10/07/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
10/07/04 - 10/13/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
10/13/04 - 10/20/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
10/20/04 - 10/27/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.2
10/27/04 - 11/03/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
11/03/04 - 11/10/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
11/10/04 - 11/17/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
11/17/04 - 11/24/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
11/24/04 - 12/01/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
12/01/04 - 12/08/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
12/08/04 - 12/15/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
12/15/04 - 12/22/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
12/22/04 - 12/29/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2

5.C.4
SUSQUEHANNA STEAM AIR SAMPLING DATA
BERWICK HOSPITAL (12E1)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/30/03 - 01/07/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
01/07/04 - 01/14/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
01/14/04 - 01/21/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
01/21/04 - 01/29/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
01/29/04 - 02/04/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.7
02/04/04 - 02/11/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
02/11/04 - 02/18/04	0.2 +/- 0.1	2.3 +/- 0.1	< 0.3
02/18/04 - 02/25/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.4
02/25/04 - 03/03/04	0.2 +/- 0.1	1.8 +/- 0.1	< 0.4
03/03/04 - 03/10/04	< 0.1	1.3 +/- 0.1	< 0.6
03/10/04 - 03/17/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
03/17/04 - 03/24/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
03/24/04 - 04/01/04	0.1 +/- 0.1	0.5 +/- 0.1	< 0.3
04/01/04 - 04/07/04	< 0.1	0.7 +/- 0.1	< 0.4
04/07/04 - 04/14/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.5
04/14/04 - 04/21/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
04/21/04 - 04/28/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.5
04/28/04 - 05/05/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
05/05/04 - 05/12/05	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
05/12/04 - 05/19/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.6
05/19/04 - 05/26/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
05/26/04 - 06/02/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
06/02/04 - 06/09/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
06/09/04 - 06/16/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
06/16/04 - 06/23/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/23/04 - 07/01/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
07/01/04 - 07/07/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
07/07/04 - 07/14/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.5
07/14/04 - 07/21/04	0.2 +/- 0.1	1.1 +/- 0.1	< 0.5
07/21/04 - 07/28/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
07/28/04 - 08/04/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.5
08/04/04 - 08/11/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.6
08/11/04 - 08/18/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
08/18/04 - 08/25/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
08/25/04 - 09/01/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
09/01/04 - 09/08/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.5
09/08/04 - 09/15/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
09/15/04 - 09/22/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
09/22/04 - 09/29/04	0.1 +/- 0.1	2.3 +/- 0.1	< 0.4
09/29/04 - 10/07/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
10/07/04 - 10/13/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.4
10/13/04 - 10/20/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
10/20/04 - 10/27/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
10/27/04 - 11/03/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.7
11/03/04 - 11/10/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
11/10/04 - 11/17/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
11/17/04 - 11/24/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.5
11/24/04 - 12/01/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
12/01/04 - 12/08/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
12/08/04 - 12/15/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.5
12/15/04 - 12/22/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/22/04 - 12/29/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4

5.D

SUSQUEHANNA STEAM AIR PARTICULATE COMPOSITE
(fCi/m3)

Station Number	Location	Collection Period	Cs-134	Cs-137
03A1	Beach Grove Rd.	12/30/03 - 4/1/04	< 0.1	< 0.1
		4/1/04 - 7/1/04	< 0.1	< 0.1
		7/1/04 - 9/29/04	< 0.1	< 0.1
		9/29/04 - 12/29/04	< 0.1	< 0.1
5A2	Biological Lab	12/30/03 - 4/1/04	< 0.1	< 0.1
		4/1/04 - 7/1/04	< 0.1	< 0.1
		7/1/04 - 9/29/04	< 0.1	< 0.1
		9/29/04 - 12/29/04	< 0.1	< 0.1
12A2	Emergency Operations Facility	12/30/03 - 4/1/04	< 0.1	< 0.1
		4/1/04 - 7/1/04	< 0.1	< 0.1
		7/1/04 - 9/29/04	< 0.1	< 0.1
		9/29/04 - 12/29/04	< 0.1	< 0.1
12E1	Berwick Hospital	12/30/03 - 4/1/04	< 0.1	< 0.1
		4/1/04 - 7/1/04	< 0.1	< 0.1
		7/1/04 - 9/29/04	< 0.1	< 0.1
		9/29/04 - 12/29/04	< 0.1	< 0.1

5.E.1

SUSQUEHANNA STEAM SURFACE WATER DATA
DOWNSTREAM OF DISCHARGE (6A3)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/26/04	1 +/- 1	< 190	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 3	< 2	< 2	< 8
3/01/04	< 2	< 170	< 1	< 3	< 1	< 2	< 3	< 3 / < 2	< 3	< 1	< 2	< 6
3/29/04	2 +/- 1	< 170	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 4	< 2	< 2	< 10
4/27/04	< 2	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 7
6/01/04	2 +/- 1	< 190	< 1	< 3	< 2	< 1	< 3	< 2 / < 2	< 3	< 1	< 2	< 6
6/29/04	3 +/- 1	< 200	< 2	< 4	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 8
7/27/04	2 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 4
8/24/04	2 +/- 1	< 190	< 3	< 5	< 3	< 3	< 6	< 4 / < 3	< 4	< 2	< 3	< 11
9/28/04	2 +/- 1	< 190	< 2	< 3	< 2	< 2	< 4	< 3 / < 2	< 2	< 2	< 2	< 6
11/02/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 5
11/30/04	2 +/- 1	< 190	< 2	< 2	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 1	< 5
12/28/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5

RIVER WATER INTAKE UPSTREAM (6A4)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/26/04	1 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 8
3/01/04	2 +/- 1	< 170	< 1	< 3	< 1	< 1	< 3	< 2 / < 2	< 3	< 1	< 2	< 6
3/29/04	2 +/- 1	< 170	< 1	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 7
4/27/04	1 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 6
6/01/04	2 +/- 1	< 190	< 1	< 3	< 2	< 1	< 2	< 2 / < 2	< 2	< 1	< 2	< 6
6/29/04	3 +/- 1	< 180	< 2	< 4	< 2	< 2	< 3	< 3 / < 2	< 4	< 2	< 2	< 9
7/27/04	2 +/- 1	< 180	< 1	< 3	< 1	< 2	< 3	< 2 / < 1	< 2	< 1	< 2	< 4
8/24/04	3 +/- 1	< 190	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
9/28/04	3 +/- 1	< 190	< 2	< 3	< 2	< 2	< 4	< 3 / < 2	< 2	< 2	< 2	< 7
11/02/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 6
11/30/04	2 +/- 1	< 190	< 1	< 2	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
12/28/04	1 +/- 1	< 180	< 1	< 3	< 1	< 1	< 3	< 2 / < 2	< 2	< 1	< 2	< 4

5.E.2

DANVILLE FINISHED WATER DOWNSTREAM (12N1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
1/31/04	1 +/- 1	< 180	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
2/29/04	1 +/- 1	< 170	< 1	< 3	< 1	< 1	< 2	< 2 / < 2	< 3	< 1	< 1	< 6
3/31/04	1 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 8
4/30/04	< 2	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 6
5/31/04	1 +/- 1	< 190	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 5
6/30/04	< 2	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 8
7/31/04	< 2	< 180	< 2	< 4	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 8
8/31/04	1 +/- 1	< 180	< 2	< 3	< 2	< 2	< 4	< 3 / < 2	< 2	< 2	< 2	< 6
9/30/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 5	< 2	< 2	< 10
10/31/04	1 +/- 1	< 180	< 2	< 4	< 2	< 2	< 4	< 3 / < 2	< 3	< 2	< 2	< 7
11/30/04	2 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 5
12/31/04	< 2	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 6

5.F

SUSQUEHANNA MILK SAMPLING

(pCi/L)

Station Number	Collection Date	I-131	Cs-134	Cs-137	Ba-140	K-40
10D1	1/05/04	< 2	< 2	< 2	< 5	1470 +/- 42
	2/03/04	< 2	< 2	< 2	< 5	1450 +/- 41
	3/08/04	< 3	< 2	< 2	< 7	1340 +/- 58
	4/05/04	< 2	< 2	< 2	< 7	1450 +/- 52
	5/03/04	< 2	< 2	< 2	< 7	1410 +/- 56
	6/20/04	< 2	< 2	< 2	< 5	1360 +/- 41
	7/06/04	< 3	< 2	< 2	< 7	1440 +/- 42
	8/02/04	< 3	< 2	< 2	< 8	1400 +/- 59
	9/20/04	< 2	< 2	< 2	< 6	1450 +/- 52
	10/04/04	< 4	< 2	< 3	< 11	1440 +/- 58
	11/08/04	< 3	< 2	< 2	< 8	1680 +/- 44
	12/06/04	< 3	< 2	< 2	< 7	1420 +/- 54
12B1	1/05/04	< 2	< 2	< 2	< 5	1410 +/- 41
	2/03/04	< 2	< 1	< 2	< 5	1510 +/- 37
	3/08/04	< 3	< 2	< 3	< 7	1350 +/- 57
	4/05/04	< 3	< 2	< 2	< 8	1450 +/- 63
	5/03/04	< 3	< 2	< 3	< 8	1450 +/- 63
	6/20/04	< 2	< 2	< 2	< 6	1420 +/- 43
	7/06/04	< 2	< 2	< 2	< 6	1470 +/- 42
	8/02/04	< 3	< 2	< 2	< 8	1350 +/- 57
	9/20/04	< 3	< 2	< 2	< 7	1260 +/- 58
	10/04/04	< 4	< 2	< 2	< 11	1330 +/- 57
	11/08/04	< 3	< 2	< 2	< 8	1350 +/- 41
	12/06/04	< 3	< 2	< 2	< 9	1300 +/- 58

5.G

SUSQUEHANNA STEAM FISH, PRODUCE & SEDIMENT DATA
(pCi/kg)

Isotope	Fish* 10/7/2004	Control Sediment** 10/11/2004	Sediment** 10/11/2004	Produce* 9/1/2004
I-131	< 67	< 10	< 9	< 3
Mn-54	< 3	< 7	< 6	< 2
Fe-59	< 12	< 13	< 12	< 5
Co-58	< 4	< 6	< 5	< 2
Co-60	< 4	< 6	< 6	< 2
Zn-65	< 8	< 14	< 13	< 5
Zr-Nb-95	< 8/< 6	< 11/< 8	< 10/< 7	< 3/< 2
Cs-134	< 3	< 5	< 5	< 2
Cs-137	< 3	51 +/- 5	55 +/- 5	< 2
Ba-140	< 72	< 28	< 24	< 8

* Wet Weight
** Dry Weight

6.A

THREE MILE ISLAND NUCLEAR STATION
QUARTERLY TLD INTERCOMPARISON
(mR/std. mo.)

Station Number	Location	Collection Period	Global Results	Proxtronics Results
1C1	Mill Street Substation	1/6/04 - 4/6/04	2.2 +/- 1.0	2.2 +/- 0.1
		4/6/04 - 7/8/04	2.4 +/- 0.5	2.9 +/- 0.3
		7/8/04 - 10/1/04	3.7 +/- 0.8	2.6 +/- 0.2
		10/1/04 - 1/5/05	3.1 +/- 1.4	2.9 +/- 0.2
5A1	Visitors Center	1/6/04 - 4/6/04	2.9 +/- 0.5	3.2 +/- 0.5
		4/6/04 - 7/8/04	2.4 +/- 0.5	3.5 +/- 0.7
		7/8/04 - 10/1/04	3.9 +/- 0.7	2.0 +/- 0.2
		10/1/04 - 1/5/05	4.5 +/- 0.5	3.0 +/- 0.2
8C1	Falmouth	1/6/04 - 4/6/04	2.4 +/- 0.9	1.9 +/- 0.8
		4/6/04 - 7/8/04	2.0 +/- 0.9	2.3 +/- 0.8
		7/8/04 - 10/1/04	3.5 +/- 1.0	1.7 +/- 0.4
		10/1/04 - 1/5/05	4.8 +/- 0.3	1.7 +/- 0.2
12B1	Goldsboro	1/6/04 - 4/6/04	2.6 +/- 0.8	1.9 +/- 0.0
		4/6/04 - 7/8/04	2.5 +/- 0.4	1.7 +/- 1.0
		7/8/04 - 10/1/04	3.5 +/- 0.9	1.1 +/- 0.5
		10/1/04 - 1/5/05	3.2 +/- 1.4	1.6 +/- 0.1
			37.3 +/- 3.1	27.2 +/- 3.1

6.B

THREE MILE ISLAND NUCLEAR STATION
THERMOLUMINESCENCE DOSIMETRY (TLD) DATA
(mR/std. mo.)

Station Code	Location	1/6/04 to 4/6/04	4/6/04 to 7/8/04	7/8/04 to 10/1/04	10/1/04 to 1/5/05	Annual Dose
01C1	Mill Street Substation	2.2 +/- 1.0	2.4 +/- 0.5	3.7 +/- 0.8	3.1 +/- 1.4	34.5 +/- 6.0
01J1	Hummelstown	3.5 +/- 0.0	2.4 +/- 0.5	3.1 +/- 1.3	2.9 +/- 1.6	35.9 +/- 6.3
02K1	Hershey	4.1 +/- 0.6	3.0 +/- 0.1	4.0 +/- 0.5	4.1 +/- 0.8	45.6 +/- 3.2
03E1	Kennedy Lane	3.3 +/- 0.1	2.6 +/- 0.4	3.5 +/- 1.0	3.7 +/- 1.0	39.2 +/- 4.2
04F1	Beagle Road	4.1 +/- 0.6	2.9 +/- 0.2	4.4 +/- 0.3	4.0 +/- 0.7	46.4 +/- 2.9
04J1	Bellaire	3.5 +/- 0.2	Missing	1.7 +/- 2.5	10.7 +/- 5.1	47.6 +/- 17.2
05A1	Visitors Center	2.9 +/- 0.5	2.4 +/- 0.5	3.9 +/- 0.7	4.5 +/- 0.5	41.0 +/- 3.2
05H1	Elizabethtown	2.5 +/- 0.8	Missing	3.9 +/- 0.6	3.0 +/- 1.6	28.2 +/- 5.6
06A1	500 KeV Substation	2.8 +/- 0.5	2.6 +/- 0.4	5.6 +/- 2.3	3.9 +/- 0.9	44.6 +/- 7.7
06F1	Elizabethtown Sewage Plant	3.2 +/- 0.3	3.3 +/- 0.4	4.1 +/- 0.4	3.3 +/- 1.3	41.7 +/- 4.4
07F1	Bainbridge	3.1 +/- 0.2	2.6 +/- 0.4	4.1 +/- 0.5	3.9 +/- 0.8	41.1 +/- 3.1
07K1	Marietta	3.8 +/- 0.4	3.8 +/- 0.7	5.5 +/- 0.8	4.2 +/- 0.6	51.8 +/- 3.7
08C1	Falmouth	2.4 +/- 0.9	2.0 +/- 0.9	3.5 +/- 1.0	4.8 +/- 0.3	38.2 +/- 4.8
08C3	York Haven	2.5 +/- 0.8	2.0 +/- 0.8	3.0 +/- 1.4	2.8 +/- 1.7	31.0 +/- 7.5
08E1	Brunners Island	2.9 +/- 0.4	2.5 +/- 0.4	3.3 +/- 1.1	2.9 +/- 1.6	35.0 +/- 6.2
09D1	Cly Substation	2.5 +/- 0.8	2.3 +/- 0.6	3.3 +/- 1.1	3.3 +/- 1.3	34.0 +/- 6.1
09H1	Manchester	3.0 +/- 0.3	2.8 +/- 0.3	4.2 +/- 0.4	2.9 +/- 1.6	38.6 +/- 5.2
09L1	York	5.0 +/- 1.4	4.8 +/- 1.6	6.1 +/- 1.3	5.8 +/- 0.9	65.4 +/- 8.0
10C1	Pleasant Grove	2.6 +/- 0.7	2.2 +/- 0.7	3.4 +/- 1.1	2.7 +/- 1.8	32.6 +/- 7.0
10E1	Strinestown	2.8 +/- 0.5	2.4 +/- 0.6	3.4 +/- 1.2	3.0 +/- 1.5	34.7 +/- 6.2
12B1	Goldsboro	2.8 +/- 0.6	2.0 +/- 0.9	3.1 +/- 1.4	2.9 +/- 1.7	32.4 +/- 7.2
12E1	Newberrytown	2.5 +/- 0.8	2.3 +/- 0.6	3.6 +/- 0.9	3.4 +/- 1.3	35.3 +/- 5.5
13B1	Goldsboro Marina	2.6 +/- 0.8	2.5 +/- 0.4	3.5 +/- 0.9	3.2 +/- 1.4	35.5 +/- 5.7
14E1	Redland Acres	2.5 +/- 0.8	2.6 +/- 0.4	3.7 +/- 1.0	3.4 +/- 1.3	36.6 +/- 5.5
14L1	Camp Hill	3.2 +/- 0.2	2.9 +/- 0.2	4.3 +/- 0.4	3.9 +/- 1.0	43.3 +/- 3.3
14M1	Mechanicsburg	3.4 +/- 0.0	3.1 +/- 0.1	5.0 +/- 0.6	4.5 +/- 0.2	48.3 +/- 1.9
15F1	Highspire	2.8 +/- 0.5	3.0 +/- 0.0	4.6 +/- 0.0	3.6 +/- 1.0	42.0 +/- 3.4
15L1	Harrisburg	2.4 +/- 0.9	2.0 +/- 0.9	3.5 +/- 1.0	2.8 +/- 1.8	31.9 +/- 7.1
16C1	Crawford Station	3.4 +/- 0.0	3.1 +/- 0.1	4.0 +/- 0.5	4.1 +/- 0.6	43.7 +/- 2.5
16J1	Rutherford Fire Co.	2.8 +/- 0.5	2.5 +/- 0.5	3.9 +/- 0.7	3.5 +/- 1.1	38.1 +/- 4.4
					Annual Average:	39.8 +/- 5.5

*Control corrected-net exposure.

6.C.1
THREE MILE ISLAND AIR SAMPLING DATA
MILL STREET SUBSTATION (1C2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/03 - 01/06/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
01/06/04 - 01/14/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
01/14/04 - 01/21/04	< 0.1	0.8 +/- 0.1	< 0.3
01/21/04 - 01/29/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
01/29/04 - 02/04/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
02/04/04 - 02/11/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
02/11/04 - 02/18/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
02/18/04 - 02/25/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.2
02/25/04 - 03/03/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
03/03/04 - 03/10/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
03/10/04 - 03/17/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
03/17/04 - 03/24/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
03/24/04 - 03/31/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
03/31/04 - 04/06/04	0.1 +/- 0.1	0.5 +/- 0.1	< 0.4
04/06/04 - 04/14/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/14/04 - 04/21/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
04/21/04 - 04/28/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/28/04 - 05/04/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
05/04/04 - 05/12/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
05/12/04 - 05/19/04	0.2 +/- 0.1	1.9 +/- 0.1	< 0.3
05/19/04 - 05/26/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
05/26/04 - 06/02/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
06/02/04 - 06/09/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/09/04 - 06/16/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
06/16/04 - 06/23/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/23/04 - 06/30/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
06/30/04 - 07/08/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
07/08/04 - 07/14/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
07/14/04 - 07/21/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
07/21/04 - 07/28/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
07/28/04 - 08/04/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
08/04/04 - 08/11/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
08/11/04 - 08/18/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
08/18/04 - 08/25/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
08/25/04 - 09/01/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
09/01/04 - 09/08/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
09/08/04 - 09/15/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
09/15/04 - 09/22/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
09/22/04 - 09/29/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
09/29/04 - 10/06/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
10/06/04 - 10/13/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
10/13/04 - 10/20/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
10/20/04 - 10/27/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
10/27/04 - 11/03/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
11/03/04 11/10/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
11/10/04 - 11/17/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
11/17/04 - 11/23/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
11/23/04 - 12/01/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
12/01/04 - 12/08/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/08/04 - 12/15/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
12/15/04 - 12/22/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/22/04 - 12/29/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2

6.C.2
THREE MILE ISLAND AIR SAMPLING DATA
VISITORS CENTER (5A2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/03 - 01/06/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
01/06/04 - 01/14/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
01/14/04 - 01/21/04	< 0.1	0.8 +/- 0.1	< 0.3
01/21/04 - 01/29/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
01/29/04 - 02/04/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
02/04/04 - 02/11/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
02/11/04 - 02/18/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
02/18/04 - 02/25/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.2
02/25/04 - 03/03/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
03/03/04 - 03/10/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
03/10/04 - 03/17/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
03/17/04 - 03/24/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
03/24/04 - 03/31/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.2
03/31/04 - 04/06/04	0.1 +/- 0.1	0.5 +/- 0.1	< 0.4
04/06/04 - 04/14/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
04/14/04 - 04/21/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
04/21/04 - 04/28/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
04/28/04 - 05/04/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
05/04/04 - 05/12/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
05/12/04 - 05/19/04	0.2 +/- 0.1	1.9 +/- 0.1	< 0.3
05/19/04 - 05/26/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
05/26/04 - 06/02/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
06/02/04 - 06/09/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/09/04 - 06/16/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
06/16/04 - 06/23/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/23/04 - 06/30/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
06/30/04 - 07/08/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
07/08/04 - 07/14/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
07/14/04 - 07/21/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
07/21/04 - 07/28/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
07/28/04 - 08/04/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
08/04/04 - 08/11/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
08/11/04 - 08/18/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
08/18/04 - 08/25/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
08/25/04 - 09/01/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
09/01/04 - 09/08/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
09/08/04 - 09/15/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
09/15/04 - 09/22/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
09/22/04 - 09/29/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
09/29/04 - 10/06/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
10/06/04 - 10/13/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
10/13/04 - 10/20/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
10/20/04 - 10/27/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
10/27/04 - 11/03/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
11/03/04 - 11/10/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
11/10/04 - 11/17/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
11/17/04 - 11/23/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
11/23/04 - 12/01/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.2
12/01/04 - 12/08/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/08/04 - 12/15/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
12/15/04 - 12/22/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/22/04 - 12/29/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2

6.C.3
THREE MILE ISLAND AIR SAMPLING DATA
COLLINS SUBSTATION (8C2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/03 - 01/06/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
01/06/04 - 01/14/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
01/14/04 - 01/21/04	< 0.1	0.8 +/- 0.1	< 0.2
01/21/04 - 01/29/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
01/29/04 - 02/04/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
02/04/04 - 02/11/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
02/11/04 - 02/18/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
02/18/04 - 02/25/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.2
02/25/04 - 03/03/04	0.2 +/- 0.1	1.7 +/- 0.1	< 0.2
03/03/04 - 03/10/04	< 0.1	1.2 +/- 0.1	< 0.4
03/10/04 - 03/17/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
03/17/04 - 03/24/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
03/24/04 - 03/31/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
03/31/04 - 04/06/04	0.1 +/- 0.1	0.5 +/- 0.1	< 0.5
04/06/04 - 04/14/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
04/14/04 - 04/21/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
04/21/04 - 04/28/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
04/28/04 - 05/04/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
05/04/04 - 05/12/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
05/12/04 - 05/19/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
05/19/04 - 05/26/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
05/26/04 - 06/02/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
06/02/04 - 06/09/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/09/04 - 06/16/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
06/16/04 - 06/23/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
06/23/04 - 06/30/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
06/30/04 - 07/08/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
07/08/04 - 07/14/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
07/14/04 - 07/21/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
07/21/04 - 07/28/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
07/28/04 - 08/04/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
08/04/04 - 08/11/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
08/11/04 - 08/18/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
08/18/04 - 08/25/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
08/25/04 - 09/01/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
09/01/04 - 09/08/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
09/08/04 - 09/15/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
09/15/04 - 09/22/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
09/22/04 - 09/29/04	0.1 +/- 0.1	2.3 +/- 0.1	< 0.4
09/29/04 - 10/06/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
10/06/04 - 10/13/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.6
10/13/04 - 10/20/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.2
10/20/04 - 10/27/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.2
10/27/04 - 11/03/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2
11/03/04 - 11/10/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
11/10/04 - 11/17/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
11/17/04 - 11/23/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
11/23/04 - 12/01/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
12/01/04 - 12/08/04	* No Sample Available - Sampler malfunction		
12/08/04 - 12/15/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.4
12/15/04 - 12/22/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
12/22/04 - 12/29/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2

6.C.4
THREE MILE ISLAND AIR SAMPLING DATA
GOLDSBORO (12B2)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/31/03 - 01/06/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
01/06/04 - 01/14/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
01/14/04 - 01/21/04	0.1 +/- 0.1	0.8 +/- 0.1	< 0.3
01/21/04 - 01/29/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/29/04 - 02/04/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
02/04/04 - 02/11/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
02/11/04 - 02/18/04	0.2 +/- 0.1	2.3 +/- 0.1	< 0.3
02/18/04 - 02/25/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.3
02/25/04 - 03/03/04	0.2 +/- 0.1	1.8 +/- 0.1	< 0.2
03/03/04 - 03/10/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.5
03/10/04 - 03/17/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
03/17/04 - 03/24/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
03/24/04 - 03/31/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
03/31/04 - 04/06/04	< 0.1	0.6 +/- 0.1	< 0.4
04/06/04 - 04/14/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
04/14/04 - 04/21/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.4
04/21/04 - 04/28/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.6
04/28/04 - 05/04/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.5
05/04/04 - 05/12/04	0.1 +/- 0.1	1.9 +/- 0.1	< 0.4
05/12/04 - 05/19/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
05/19/04 - 05/26/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
05/26/04 - 06/02/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/02/04 - 06/09/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.5
06/09/04 - 06/16/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.4
06/16/04 - 06/23/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.4
06/23/04 - 06/30/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
06/30/04 - 07/08/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.5
07/08/04 - 07/14/04	< 0.1	0.9 +/- 0.1	< 0.4
07/14/04 - 07/21/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.7
07/21/04 - 07/28/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.5
07/28/04 - 08/04/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
08/04/04 - 08/11/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
08/11/04 - 08/18/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
08/18/04 - 08/25/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.4
08/25/04 - 09/01/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
09/01/04 - 09/08/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.4
09/08/04 - 09/15/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
09/15/04 - 09/22/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
09/22/04 - 09/29/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.4
09/29/04 - 10/06/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
10/06/04 - 10/13/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.5
10/13/04 - 10/20/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
10/20/04 - 10/27/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.4
10/27/04 - 11/03/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.5
11/03/04 11/10/04	* No Sample Available - Sampler malfunction		
11/10/04 - 11/17/04	* No Sample Available - Sampler malfunction		
11/17/04 - 11/23/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
11/23/04 - 12/01/04	0.1 +/- 0.1	1.2 +/- 0.1	< 0.3
12/01/04 - 12/08/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/08/04 - 12/15/04	0.1 +/- 0.1	0.9 +/- 0.1	< 0.3
12/15/04 - 12/22/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
12/22/04 - 12/29/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3

6.C.5
CONTROL AIR SAMPLING DATA (15L3)

Collection Period	Particulates (x 0.01 pCi/m^3) Alpha	Beta	Iodine-131 (x 0.01 pCi/m^3)
12/29/03 - 01/05/04	0.1 +/- 0.1	2.3 +/- 0.1	< 0.2
01/05/04 - 01/12/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.2
01/12/04 - 01/20/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
01/20/04 - 01/26/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
01/26/04 - 02/02/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
02/02/04 - 02/09/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
02/09/04 - 02/17/04	0.2 +/- 0.1	2.5 +/- 0.1	< 0.3
02/17/04 - 02/23/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.4
02/23/04 - 03/01/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
03/01/04 - 03/08/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.5
03/08/04 - 03/15/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.4
03/15/04 - 03/22/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
03/22/04 - 03/29/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.3
03/29/04 - 04/05/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.3
04/05/04 - 04/12/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
04/12/04 - 04/19/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.2
04/19/04 - 04/26/04	* No Sample Available - Sampler malfunction		
04/26/04 - 05/03/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.3
05/03/04 - 05/10/04	0.2 +/- 0.1	1.7 +/- 0.1	< 0.3
05/10/04 - 05/17/04	0.2 +/- 0.1	2.4 +/- 0.1	< 0.5
05/17/04 - 05/24/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
05/24/04 - 06/01/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
06/01/04 - 06/07/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
06/07/04 - 06/14/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
06/14/04 - 06/21/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
06/21/04 - 06/28/04	0.1 +/- 0.1	2.0 +/- 0.1	< 0.3
06/28/04 - 07/06/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
07/06/04 - 07/12/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.4
07/12/04 - 07/19/04	0.2 +/- 0.1	1.3 +/- 0.1	< 0.3
07/19/04 - 07/26/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.4
07/26/04 - 08/02/04	0.1 +/- 0.1	1.1 +/- 0.1	< 0.3
08/02/04 - 08/09/04	0.1 +/- 0.1	1.3 +/- 0.1	< 0.7
08/09/04 - 08/16/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
08/16/04 - 08/23/04	0.1 +/- 0.1	2.4 +/- 0.1	< 0.3
08/23/04 - 08/30/04	0.1 +/- 0.1	2.5 +/- 0.1	< 0.4
08/30/04 - 09/07/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.3
09/07/04 - 09/13/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
09/13/04 - 09/21/04	0.1 +/- 0.1	1.4 +/- 0.1	< 0.2
09/21/04 - 09/27/04	0.2 +/- 0.1	2.7 +/- 0.1	< 0.3
09/27/04 - 10/04/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.2
10/04/04 - 10/12/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.3
10/12/04 - 10/18/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.4
10/18/04 - 10/25/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.4
10/25/04 - 11/01/04	0.1 +/- 0.1	2.1 +/- 0.1	< 0.3
11/01/04 - 11/08/04	0.1 +/- 0.1	1.8 +/- 0.1	< 0.3
11/08/04 - 11/15/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
11/15/04 - 11/22/04	0.1 +/- 0.1	2.4 +/- 0.1	< 0.2
11/22/04 - 11/29/04	0.1 +/- 0.1	1.6 +/- 0.1	< 0.2
11/29/04 - 12/06/04	0.1 +/- 0.1	2.2 +/- 0.1	< 0.2
12/06/04 - 12/13/04	0.1 +/- 0.1	1.0 +/- 0.1	< 0.3
12/13/04 - 12/20/04	0.1 +/- 0.1	1.5 +/- 0.1	< 0.3
12/20/04 - 12/27/04	0.1 +/- 0.1	1.7 +/- 0.1	< 0.2

6.D

THREE MILE ISLAND AIR PARTICULATE COMPOSITES
(fCi/m3)

Station Number	Location	Collection Period	Cs-134	Cs-137
1C2	Mill St. Substation	12/29/03 - 3/29/04	< 0.1	< 0.1
		3/29/04 - 6/28/04	< 0.1	< 0.1
		6/28/04 - 9/27/04	< 0.1	< 0.1
		9/29/04 - 12/29/04	< 0.1	< 0.1
5A2	Visitors Center	12/29/03 - 3/29/04	< 0.1	< 0.1
		3/29/04 - 6/28/04	< 0.1	< 0.1
		6/28/04 - 9/27/04	< 0.1	< 0.1
		9/29/04 - 12/29/04	< 0.1	< 0.1
8C2	Collins Substation	12/29/03 - 3/29/04	< 0.1	< 0.1
		3/29/04 - 6/28/04	< 0.1	< 0.1
		6/28/04 - 9/27/04	< 0.1	< 0.1
		9/29/04 - 12/29/04	< 0.1	< 0.1
12B2	Goldsboro	12/31/03 - 3/31/04	< 0.1	< 0.1
		3/31/04 - 6/30/04	< 0.1	< 0.1
		6/30/04 - 9/29/04	< 0.1	< 0.1
		9/29/04 - 12/29/04	< 0.1	< 0.1
15L3	Harrisburg	12/29/03 - 3/29/04	< 0.1	< 0.1
		3/29/04 - 6/28/04	< 0.1	< 0.1
		6/28/04 - 9/27/04	< 0.1	< 0.1
		9/29/04 - 12/29/04	< 0.1	< 0.1

6.E.1

THREE MILE ISLAND WATER SAMPLING DATA
COLUMBIA FINISHED DOWNSTREAM (7L1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
2/03/04	< 2	< 180	< 1	< 2	< 1	< 1	< 3	< 2 / < 1	< 2	< 1	< 2	< 4
3/02/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
3/30/04	2 +/- 1	< 180	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 2	4 +/- 2	< 5
4/28/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 1	< 2	< 6
6/01/04	< 2	< 190	< 1	< 2	< 1	< 1	< 3	< 2 / < 2	< 2	< 1	3 +/- 1	< 5
6/29/04	1 +/- 1	< 200	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
8/03/04	2 +/- 1	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 5
8/31/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 5
9/28/04	2 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 5
11/02/04	3 +/- 1	< 180	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 2	< 1	< 2	< 5
12/01/04	2 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 6
12/28/04	< 2	< 180	< 1	< 3	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 2	< 5

STEELTON FINISHED UPSTREAM (15J1)
(pCi/L)

Collection Period Ending	Beta	Tritium	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-Nb-95	I-131	Cs-134	Cs-137	Ba-140
2/04/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 6
3/02/04	< 2	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
3/30/04	< 2	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 2	< 1	< 1	< 4
4/28/04	< 2	< 190	< 1	< 3	< 1	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 6
6/01/04	1 +/- 1	< 190	< 2	< 3	< 2	< 2	< 3	< 2 / < 2	< 3	< 1	< 2	< 6
6/29/04	< 2	< 200	< 2	< 3	< 2	< 2	< 4	< 3 / < 2	< 4	< 2	< 2	< 9
8/03/04	< 2	< 180	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 3	< 2	< 2	< 7
8/31/04	2 +/- 1	< 180	< 2	< 3	< 2	< 2	< 4	< 3 / < 2	< 2	< 2	< 2	< 7
9/28/04	2 +/- 1	< 190	< 2	< 4	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 6
11/02/04	1 +/- 1	< 180	< 1	< 2	< 1	< 2	< 3	< 2 / < 2	< 2	< 2	< 1	< 5
12/01/04	2 +/- 1	< 170	< 2	< 3	< 2	< 2	< 3	< 3 / < 2	< 2	< 2	< 2	< 6
12/28/04	< 2	< 180	< 1	< 2	< 1	< 1	< 2	< 2 / < 1	< 1	< 1	< 1	< 4

6.F

THREE MILE ISLAND MILK SAMPLING DATA

(pCi/L)

Station Number	Collection Date	I-131	Cs-134	Cs-137	Ba-140	K-40
07B1	1/08/04	< 2	< 2	< 2	< 5	1220 +/- 41
	2/04/04	< 3	< 3	< 3	< 11	1100 +/- 62
	3/03/04	< 3	< 3	< 3	< 10	1140 +/- 54
	4/14/04	< 3	< 3	< 3	< 8	1010 +/- 44
	5/12/04	< 3	< 3	< 3	< 9	996 +/- 45
	6/09/04	< 3	< 2	< 2	< 7	1220 +/- 47
	7/07/04	< 2	< 2	< 2	< 5	1370 +/- 41
	8/18/04	< 2	< 2	< 2	< 5	1510 +/- 43
	9/01/04	< 2	< 2	< 2	< 5	1430 +/- 43
	10/13/04	< 2	< 2	< 2	< 5	1400 +/- 40
	11/10/04	< 3	< 2	< 2	< 7	1300 +/- 40
	12/08/04	*				
10K1	1/07/04	< 2	< 1	< 2	< 4	1550 +/- 38
	2/04/04	< 2	< 2	< 2	< 7	1390 +/- 60
	3/03/04	< 2	< 2	< 2	< 8	1470 +/- 61
	4/14/04	< 2	< 2	< 2	< 5	1510 +/- 38
	5/12/04	< 2	< 1	< 2	< 4	1480 +/- 38
	6/09/04	< 2	< 1	< 2	< 4	1480 +/- 37
	7/07/04	< 2	< 1	< 2	< 4	1470 +/- 36
	8/18/04	< 2	< 1	< 2	< 4	1410 +/- 35
	9/01/04	< 2	< 1	< 2	< 4	1470 +/- 37
	10/13/04	< 2	< 1	< 2	< 4	1480 +/- 38
	11/10/04	< 2	< 1	< 2	< 5	1480 +/- 37
	12/08/04	* Sample not available				

6.G

THREE MILE ISLAND FISH, PRODUCE & SEDIMENT DATA
(pCi/kg)

Isotope	Fish* 6/18/2002	Control Sediment** 6/17/2002	Sediment** 6/17/2002	Produce* 8/1/2002
I-131	< 12	< 67	< 93	< 10
Mn-54	< 2	< 6	< 10	< 2
Fe-59	< 7	< 17	< 27	< 6
Co-58	< 3	< 7	< 10	< 3
Co-60	< 3	< 6	< 9	< 3
Zn-65	< 6	< 13	< 22	< 6
Zr-Nb-95	< 5/< 3	< 14/< 12	< 20/< 17	< 5/< 3
Cs-134	< 2	< 5	< 8	< 2
Cs-137	< 3	60 +/- 5	139 +/- 8	< 2
Ba-140	< 22	< 87	< 125	< 18

* Wet Weight
** Dry Weight

7.A

Quehanna
THERMOLUMINESCENCE DOSIMETRY (TLD) DATA
(mR/std. mo.)

Station Number	Location	1/7/04 to 4/13/04	4/13/04 to 7/7/04
QOQT01	Tornado Field	3.2 +/- 0.4	2.4 +/- 1.3
QOQT02	Griest Residence	2.3 +/- 1.1	3.0 +/- 0.8
QOQT03	Duck Pond	2.6 +/- 0.9	3.1 +/- 0.7
QOQT04	Reservoir	2.8 +/- 0.7	2.4 +/- 1.4
QOQT05	Boot Camp	2.6 +/- 0.8	2.6 +/- 1.1

7.B.1

Permagrain Inc. Facility Air Sampling Data
Tornado Field
Q-1

Collection Period	Gross Alpha	Gross Beta
	x 10^{-2} pCi/m^3	
12/31/03 - 01/07/04	0.1 +/- 0.1	1.9 +/- 0.1
01/07/04 - 01/14/04	0.2 +/- 0.1	2.6 +/- 0.1
01/14/04 - 01/22/04	0.1 +/- 0.1	1.4 +/- 0.1
01/22/04 - 01/29/04	0.1 +/- 0.1	2.0 +/- 0.1
01/29/04 - 02/12/04	0.2 +/- 0.1	2.6 +/- 0.1
02/12/04 - 02/18/04	0.1 +/- 0.1	2.5 +/- 0.1
02/18/04 - 02/25/04	0.1 +/- 0.1	2.7 +/- 0.1
02/25/04 - 03/03/04	0.1 +/- 0.1	2.1 +/- 0.1
03/03/04 - 03/10/04	0.1 +/- 0.1	1.6 +/- 0.1
03/10/04 - 03/18/04	0.1 +/- 0.1	1.6 +/- 0.1
03/18/04 - 03/24/04	0.2 +/- 0.1	1.7 +/- 0.1
03/24/04 - 03/30/04	0.1 +/- 0.1	1.8 +/- 0.1
03/30/04 - 04/06/04	0.1 +/- 0.1	0.8 +/- 0.1
04/06/04 - 04/13/04	0.2 +/- 0.1	1.5 +/- 0.1
04/13/04 - 04/20/04	0.2 +/- 0.1	1.9 +/- 0.1
04/20/04 - 04/28/04	0.1 +/- 0.1	1.4 +/- 0.1
04/28/04 - 05/05/04	0.1 +/- 0.1	2.1 +/- 0.1
05/05/04 - 05/12/04	0.1 +/- 0.1	2.2 +/- 0.1
05/12/04 - 05/18/04	0.1 +/- 0.1	1.9 +/- 0.1
05/18/04 - 05/26/04	0.1 +/- 0.1	1.1 +/- 0.1
05/26/04 - 06/02/04	0.1 +/- 0.1	1.4 +/- 0.1
06/02/04 - 06/10/04	0.1 +/- 0.1	1.6 +/- 0.1
06/10/04 - 06/16/04	0.1 +/- 0.1	1.6 +/- 0.1
06/16/04 - 06/23/04	0.1 +/- 0.1	1.6 +/- 0.1
06/23/04 - 07/01/04	0.1 +/- 0.1	1.6 +/- 0.1
07/01/04 - 07/07/04	0.1 +/- 0.1	1.8 +/- 0.1
07/07/04 - 07/14/04	0.1 +/- 0.1	1.2 +/- 0.1
07/14/04 - 07/20/04	0.2 +/- 0.1	1.5 +/- 0.1
07/20/04 - 07/28/04	0.1 +/- 0.1	1.5 +/- 0.1

7.B.2

Griest Residence
Q-2

Collection Period	Gross Alpha	Gross Beta
	x 10^{-2} pCi/m^3	
12/31/03 - 01/07/04	0.2 +/- 0.1	2.0 +/- 0.1
01/07/04 - 01/14/04	0.2 +/- 0.1	3.0 +/- 0.1
01/14/04 - 01/22/04	0.1 +/- 0.1	1.4 +/- 0.1
01/22/04 - 01/29/04	0.1 +/- 0.1	2.2 +/- 0.1
01/29/04 - 02/12/04	0.2 +/- 0.1	2.7 +/- 0.1
02/12/04 - 02/18/04	0.2 +/- 0.1	2.9 +/- 0.1
02/18/04 - 02/25/04	0.1 +/- 0.1	3.0 +/- 0.1
02/25/04 - 03/03/04	0.2 +/- 0.1	2.3 +/- 0.1
03/03/04 - 03/10/04	0.1 +/- 0.1	1.9 +/- 0.1
03/10/04 - 03/18/04	0.1 +/- 0.1	1.7 +/- 0.1
03/18/04 - 03/24/04	0.1 +/- 0.1	2.0 +/- 0.1
03/24/04 - 03/30/04	0.1 +/- 0.1	2.0 +/- 0.1
03/30/04 - 04/06/04	0.1 +/- 0.1	0.9 +/- 0.1
04/06/04 - 04/13/04	0.2 +/- 0.1	1.5 +/- 0.1
04/13/04 - 04/20/04	0.2 +/- 0.1	2.0 +/- 0.1
04/20/04 - 04/28/04	0.1 +/- 0.1	1.6 +/- 0.1
04/28/04 - 05/05/04	0.1 +/- 0.1	1.7 +/- 0.1
05/05/04 - 05/12/04	0.1 +/- 0.1	2.5 +/- 0.1
05/12/04 - 05/18/04	0.1 +/- 0.1	1.9 +/- 0.1
05/18/04 - 05/26/04	0.1 +/- 0.1	1.3 +/- 0.1
05/26/04 - 06/02/04	0.1 +/- 0.1	1.5 +/- 0.1
06/02/04 - 06/10/04	0.1 +/- 0.1	1.8 +/- 0.1
06/10/04 - 06/16/04	0.1 +/- 0.1	1.6 +/- 0.1
06/16/04 - 06/23/04	0.1 +/- 0.1	1.7 +/- 0.1
06/23/04 - 07/01/04	0.1 +/- 0.1	1.7 +/- 0.1
07/01/04 - 07/07/04	0.1 +/- 0.1	1.9 +/- 0.1
07/07/04 - 07/14/04	0.1 +/- 0.1	1.3 +/- 0.1
07/14/04 - 07/20/04	0.1 +/- 0.1	1.6 +/- 0.1
07/20/04 - 07/28/04	0.1 +/- 0.1	1.6 +/- 0.1

7.B.3

Duck Pond
Q-3

Collection Period	Gross Alpha (x 10^{-2} pCi/m^3)	Gross Beta (x 10^{-2} pCi/m^3)
12/31/03 - 01/07/04	0.1 +/- 0.1	1.8 +/- 0.1
01/07/04 - 01/14/04	0.2 +/- 0.1	2.4 +/- 0.1
01/14/04 - 01/22/04	No Sample Available	
01/22/04 - 01/29/04	0.1 +/- 0.1	1.8 +/- 0.1
01/29/04 - 02/12/04	0.2 +/- 0.1	2.4 +/- 0.1
02/12/04 - 02/18/04	0.1 +/- 0.1	2.5 +/- 0.1
02/18/04 - 02/25/04	0.1 +/- 0.1	2.5 +/- 0.1
02/25/04 - 03/03/04	0.1 +/- 0.1	1.9 +/- 0.1
03/03/04 - 03/10/04	0.1 +/- 0.1	1.5 +/- 0.1
03/10/04 - 03/18/04	0.2 +/- 0.1	1.6 +/- 0.1
03/18/04 - 03/24/04	No Sample Available	
03/24/04 - 03/30/04	0.1 +/- 0.1	1.2 +/- 0.1
03/30/04 - 04/06/04	0.1 +/- 0.1	0.7 +/- 0.1
04/06/04 - 04/13/04	0.2 +/- 0.1	1.5 +/- 0.1
04/13/04 - 04/20/04	0.2 +/- 0.1	1.8 +/- 0.1
04/20/04 - 04/28/04	0.1 +/- 0.1	1.3 +/- 0.1
04/28/04 - 05/05/04	0.1 +/- 0.1	1.5 +/- 0.1
05/05/04 - 05/12/04	0.1 +/- 0.1	2.1 +/- 0.1
05/12/04 - 05/18/04	0.1 +/- 0.1	1.8 +/- 0.1
05/18/04 - 05/26/04	0.1 +/- 0.1	1.1 +/- 0.1
05/26/04 - 06/02/04	0.1 +/- 0.1	1.3 +/- 0.1
06/02/04 - 06/10/04	0.1 +/- 0.1	1.6 +/- 0.1
06/10/04 - 06/16/04	0.1 +/- 0.1	1.6 +/- 0.1
06/16/04 - 06/23/04	0.1 +/- 0.1	1.5 +/- 0.1
06/23/04 - 07/01/04	0.1 +/- 0.1	1.4 +/- 0.1
07/01/04 - 07/07/04	0.1 +/- 0.1	1.7 +/- 0.1
07/07/04 - 07/14/04	0.1 +/- 0.1	1.2 +/- 0.1
07/14/04 - 07/20/04	0.1 +/- 0.1	1.4 +/- 0.1
07/20/04 - 07/28/04	0.1 +/- 0.1	1.5 +/- 0.1

7.B.4

Reservoir
Q-4

Collection Period	Gross Alpha	Gross Beta
	x 10^{-2} pCi/m^3	
12/31/03 - 01/07/04	0.1 +/- 0.1	1.7 +/- 0.1
01/07/04 - 01/14/04	0.2 +/- 0.1	2.6 +/- 0.1
01/14/04 - 01/22/04	0.1 +/- 0.1	1.2 +/- 0.1
01/22/04 - 01/29/04	0.1 +/- 0.1	1.9 +/- 0.1
01/29/04 - 02/12/04	0.2 +/- 0.1	2.5 +/- 0.1
02/12/04 - 02/18/04	0.1 +/- 0.1	2.6 +/- 0.1
02/18/04 - 02/25/04	0.1 +/- 0.1	2.7 +/- 0.1
02/25/04 - 03/03/04	0.2 +/- 0.1	2.0 +/- 0.1
03/03/04 - 03/10/04	0.1 +/- 0.1	1.6 +/- 0.1
03/10/04 - 03/18/04	0.1 +/- 0.1	1.5 +/- 0.1
03/18/04 - 03/24/04	0.1 +/- 0.1	1.8 +/- 0.1
03/24/04 - 03/30/04	0.2 +/- 0.1	1.7 +/- 0.1
03/30/04 - 04/06/04	0.1 +/- 0.1	0.8 +/- 0.1
04/06/04 - 04/13/04	0.2 +/- 0.1	1.5 +/- 0.1
04/13/04 - 04/20/04	0.2 +/- 0.1	1.8 +/- 0.1
04/20/04 - 04/28/04	0.1 +/- 0.1	1.3 +/- 0.1
04/28/04 - 05/05/04	0.1 +/- 0.1	1.4 +/- 0.1
05/05/04 - 05/12/04	0.1 +/- 0.1	2.2 +/- 0.1
05/12/04 - 05/18/04	0.1 +/- 0.1	1.7 +/- 0.1
05/18/04 - 05/26/04	0.1 +/- 0.1	1.1 +/- 0.1
05/26/04 - 06/02/04	0.1 +/- 0.1	1.3 +/- 0.1
06/02/04 - 06/10/04	0.1 +/- 0.1	1.5 +/- 0.1
06/10/04 - 06/16/04	0.1 +/- 0.1	1.5 +/- 0.1
06/16/04 - 06/23/04	0.1 +/- 0.1	1.4 +/- 0.1
06/23/04 - 07/01/04	0.1 +/- 0.1	1.4 +/- 0.1
07/01/04 - 07/07/04	0.1 +/- 0.1	1.7 +/- 0.1
07/07/04 - 07/14/04	0.1 +/- 0.1	1.1 +/- 0.1
07/14/04 - 07/20/04	0.1 +/- 0.1	1.4 +/- 0.1
07/20/04 - 07/28/04	0.1 +/- 0.1	1.4 +/- 0.1

7.B.5

Boot Camp
Q-5

Collection Period	Gross Alpha ($x\ 10^{-2}$ pCi/m^3)	Gross Beta ($x\ 10^{-2}$ pCi/m^3)
- 01/07/04	0.2 +/- 0.1	1.7 +/- 0.1
01/07/04 - 01/14/04	0.1 +/- 0.1	2.1 +/- 0.1
01/14/04 - 01/22/04	0.1 +/- 0.1	1.2 +/- 0.1
01/22/04 - 01/29/04	0.1 +/- 0.1	1.7 +/- 0.1
01/29/04 - 02/12/04	0.2 +/- 0.1	2.4 +/- 0.1
02/12/04 - 02/18/04	0.1 +/- 0.1	3.0 +/- 0.1
02/18/04 - 02/25/04	0.1 +/- 0.1	2.9 +/- 0.1
02/25/04 - 03/03/04	0.1 +/- 0.1	2.3 +/- 0.1
03/03/04 - 03/10/04	0.1 +/- 0.1	1.8 +/- 0.1
03/10/04 - 03/18/04	0.2 +/- 0.1	1.6 +/- 0.1
03/18/04 - 03/24/04	0.1 +/- 0.1	2.0 +/- 0.1
03/24/04 - 03/30/04	0.2 +/- 0.1	1.9 +/- 0.1
03/30/04 - 04/06/04	0.1 +/- 0.1	0.9 +/- 0.1
04/06/04 - 04/13/04	0.1 +/- 0.1	1.7 +/- 0.1
04/13/04 - 04/20/04	0.2 +/- 0.1	1.9 +/- 0.1
04/20/04 - 04/28/04	0.1 +/- 0.1	1.4 +/- 0.1
04/28/04 - 05/05/04	0.1 +/- 0.1	1.7 +/- 0.1
05/05/04 - 05/12/04	0.1 +/- 0.1	2.3 +/- 0.1
05/12/04 - 05/18/04	0.1 +/- 0.1	2.0 +/- 0.1
05/18/04 - 05/26/04	0.1 +/- 0.1	1.2 +/- 0.1
05/26/04 - 06/02/04	0.1 +/- 0.1	1.4 +/- 0.1
06/02/04 - 06/10/04	0.1 +/- 0.1	1.7 +/- 0.1
06/10/04 - 06/16/04	0.1 +/- 0.1	1.6 +/- 0.1
06/16/04 - 06/23/04	0.1 +/- 0.1	1.6 +/- 0.1
06/23/04 - 07/01/04	0.1 +/- 0.1	1.6 +/- 0.1
07/01/04 - 07/07/04	0.1 +/- 0.1	1.9 +/- 0.1
07/07/04 - 07/14/04	0.1 +/- 0.1	1.3 +/- 0.1
07/14/04 - 07/20/04	0.2 +/- 0.1	1.8 +/- 0.1
07/20/04 - 07/28/04	0.1 +/- 0.1	1.8 +/- 0.1

7.C

Moly Corp
THERMOLUMINESCENCE DOSIMETRY (TLD) DATA
(mR/std. mo.)

	Location	1/8/04 to 4/6/04	4/6/04 to 6/29/04	6/29/04 to 10/4/04	10/4/04 to 1/5/05	Annual Dose
MOQT01	Baird & Wilmington	3.1 +/- 0.7	3.3 +/- 1.2	3.6 +/- 0.7	4.5 +/- 0.3	43.3 +/- 4.7
MOQT02	Berthel & Jefferson	2.9 +/- 0.7	2.7 +/- 0.6	3.2 +/- 1.1	3.3 +/- 1.2	36.2 +/- 5.6
MOQT03	Bridge Pole	3.5 +/- 0.2	3.2 +/- 0.4	3.9 +/- 0.4	4.1 +/- 0.6	43.9 +/- 2.6
MOQT04	Caldwell/Jessop & Addison	3.1 +/- 0.5	2.9 +/- 0.5	3.6 +/- 0.7	3.3 +/- 1.3	38.5 +/- 5.0
MOQT05	Ellwood Park Road Dead End	3.6 +/- 0.2	3.4 +/- 0.0	3.7 +/- 0.6	4.5 +/- 0.4	45.8 +/- 2.3
MOQT06	Hickory & Ellis	2.9 +/- 0.8	3.1 +/- 0.3	3.8 +/- 0.5	3.6 +/- 0.9	40.3 +/- 4.0
MOQT07	Kerns Hill Rd. & Weirich	3.7 +/- 0.4	3.1 +/- 0.3	4.0 +/- 0.6	3.8 +/- 0.8	43.5 +/- 3.4
MOQT08	Lacock & Weirich	3.7 +/- 0.5	3.3 +/- 0.2	3.8 +/- 0.6	5.0 +/- 0.4	47.3 +/- 2.7
MOQT09	Plant Fence	7.0 +/- 2.9	7.2 +/- 3.3	8.7 +/- 3.7	4.5 +/- 0.7	82.1 +/- 17.4
MOQT10	The Circle Road	3.6 +/- 0.3	3.1 +/- 0.3	4.0 +/- 0.6	4.1 +/- 0.7	44.8 +/- 3.1
MOQT11	The Road & Jack St.	3.1 +/- 0.6	3.0 +/- 0.3	3.5 +/- 0.8	3.5 +/- 1.0	39.5 +/- 4.4
MOQT12	The Road & Weirich	3.4 +/- 0.3	3.1 +/- 0.2	3.9 +/- 0.4	4.1 +/- 0.5	43.5 +/- 2.2

*Control corrected-net exposure.

Annual Average: 45.7 +/- 4.8

7.D

Waltz Mills Air Sampling Results
Waltz-1

Collection Period	Cs-137	Th-228	Th-230	Th-232	Pu-238	Pu-239	U-234	U-235	U-238
					(x 10^{-4} pCi/m^3)				
12/30/03 - 03/30/04	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.2 +/- 0.1	< 0.1	0.2 +/- 0.1
03/30/04 - 06/29/04	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	< 0.1	0.3 +/- 0.1	< 0.1	0.2 +/- 0.1
06/29/04 - 09/28/04	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	< 0.1	0.2 +/- 0.1	0.1 +/- 0.1	0.2 +/- 0.1
09/28/04 - 12/29/04	< 1	0.4 +/- 0.1	0.4 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	0.3 +/- 0.1

Waltz-2

Collection Period	Cs-137	Th-228	Th-230	Th-232	Pu-238	Pu-239	U-234	U-235	U-238
					(x 10^{-4} pCi/m^3)				
12/30/03 - 03/30/04	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	< 0.1	0.2 +/- 0.1	0.1 +/- 0.1	0.2 +/- 0.1
03/30/04 - 06/29/04	< 1	0.2 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.2 +/- 0.1	0.1 +/- 0.1	0.2 +/- 0.1
06/29/04 - 09/28/04	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.2 +/- 0.1	< 0.1	0.3 +/- 0.1
09/28/04 - 12/29/04	< 1	0.2 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	0.2 +/- 0.1

7.E

Waltz Mills Air Sampling Results
Waltz-1

Collection Period	Cs-137	Th-228	Th-230	Th-232	Pu-238	Pu-239	U-234	U-235	U-238
					(x 10^{-4} pCi/m^3)				
12/30/03 - 03/30/04	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.2 +/- 0.1	< 0.1	0.2 +/- 0.1
03/30/04 - 06/29/04	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	< 0.1	0.3 +/- 0.1	< 0.1	0.2 +/- 0.1
06/29/04 - 09/28/04	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	< 0.1	0.2 +/- 0.1	0.1 +/- 0.1	0.2 +/- 0.1
09/28/04 - 12/29/04	< 1	0.4 +/- 0.1	0.4 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	0.3 +/- 0.1

Waltz-2

Collection Period	Cs-137	Th-228	Th-230	Th-232	Pu-238	Pu-239	U-234	U-235	U-238
					(x 10^{-4} pCi/m^3)				
12/30/03 - 03/30/04	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	< 0.1	0.2 +/- 0.1	0.1 +/- 0.1	0.2 +/- 0.1
03/30/04 - 06/29/04	< 1	0.2 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.2 +/- 0.1	0.1 +/- 0.1	0.2 +/- 0.1
06/29/04 - 09/28/04	< 1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.2 +/- 0.1	< 0.1	0.3 +/- 0.1
09/28/04 - 12/29/04	< 1	0.2 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	< 0.1	0.1 +/- 0.1	0.3 +/- 0.1	0.1 +/- 0.1	0.2 +/- 0.1

For more information, visit DEP's Web site at www.depweb.state.pa.us, keyword: Radiation Protection.

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