MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN

RADIATION ENVIRONMENTAL MONITORING

PROGRAM REPORT

SUPPLEMENT 4

2005-2007

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Prepared by

Michigan Department of Environmental Quality
Waste and Hazardous Materials Division
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Executive Summary

Recognizing that the use of nuclear energy to produce electricity could have an adverse impact on public health and the environment, the state of Michigan established the Michigan Radiation Environmental Monitoring Program (MREMP) in 1958 to monitor the environs near the nuclear power plant sites to assure that Michigan's citizens and environment are not adversely impacted. Environmental samples in the form of air particulates, air vapors, milk, surface water, and direct radiation are taken from various sites in Michigan and analyzed to determine if any radiological effects due to nuclear power plants can be detected.

Historically, sample results from all media have indicated elevated levels of radioactivity, but the vast majority of these elevated levels are attributable to past atmospheric testing of nuclear weapons. Analytical results that could be attributed to nuclear power plant operations have only been detected on-site at the plants and were within the allowable U.S. Nuclear Regulatory Commission (NRC) limits. No analytical results attributable to nuclear power plant operations have been detected off site at any of the plants (see *MREMP Report 1958-1996, MREMP Report, Supplement 1, 1997-1999, MREMP Report, Supplement 2, 2000-2001, and MREMP Report, Supplement 3, 2002-2004*).

This report (*MREMP Report, Supplement 4, 2005-2007*) contains the results of radiation environmental monitoring for the years 2005-2007, extending by three years the previously reported data published in 1998 (*MREMP Report 1958-1996), 2000 (MREMP Report, Supplement 1, 1997-1999*), 2002 (MREMP Report, Supplement 2, 2000-2001), and 2005 (MREMP Report, Supplemental 3, 2002-2004). Although a few samples were found to contain elevated levels of radioactivity attributable to nuclear power plant operations, these samples were collected within the nuclear plant site property and did not represent a regulatory, public health, or environmental concern. The influence of atmospheric fallout from past testing of nuclear weapons can no longer be readily seen in environmental samples, and monitoring levels from all off-site samples now fluctuate in the range of natural background radiation.

In conclusion, the results of the MREMP for the years 2005-2007 indicate that no public health or environmental radiological impact has yet been detected in the off-site environs of Michigan's nuclear power plants due to the operation of nuclear power reactors.

Introduction

Program History

In 1958 the Michigan Department of Health established the Michigan Radiation Environmental Monitoring Program (MREMP) to determine the impact of nuclear power plants on the environment and public health. Specific statutory authority for an environmental monitoring program was provided to the Michigan Department of Public Health in 1972 with the enactment of 1972 PA 305. Later, the Public Health Code, 1978 PA 368, as amended (Act 368), provided this authority in Section 13518 of Part 135, Radiation Control, of Act 368. In April 1996 the MREMP was transferred to the Michigan Department of Environmental Quality (MDEQ) by Executive Order 1996-1, along with other radioactive material radiation protection programs. The MREMP monitoring program has been in continuous operation since its inception in 1958.

This report is the 4th supplement to the *Michigan Radiation Environmental Monitoring Program (MREMP) Report 1958-1996* published in May 1998. The MREMP Report *Supplement 1 1997-1999* was published in August 2000, Supplement 2 was published in August 2002, and Supplement 3 was published in August 2005, by the MDEQ. This 4th supplement extends the monitoring period that began in 1958 through the years 2005 and 2007. As a sequel, this supplement report will focus on the 2005-2007 monitoring results and refer to the original report for discussions of historical trends and preoperational baseline results.

Nuclear Power Plants in Michigan

Big Rock Point

Consumers Energy Company's Big Rock Point Plant, a boiling water reactor (BWR) near Charlevoix, was the first operational nuclear power plant in Michigan. The 240 megawatt thermal (MWt) plant achieved initial criticality on September 27, 1962, and commenced electrical power production before the end of the year. On August 29, 1997, which was the 35th anniversary of the Atomic Energy Commission issuance of an operating license to Big Rock Point, the plant was shut down for the final time. Site decommissioning activities were initiated shortly after the final shutdown and were completed in 2006. The Big Rock Point Plant has been under MREMP surveillance since July 1960.

Palisades

Located near South Haven, Michigan, is Consumers Energy Company's Palisades Plant, a 2530 MWt pressurized water reactor (PWR), that went into operation in 1971. The Palisades Plant has been in essentially continuous operation since 1971 except for two lengthy periods: one in the mid-1970s and another in the fall of 1990, when extensive steam generator repair and/or steam generator replacement took place. MREMP surveillance of the plant was initiated in 1968.

D. C. Cook

The American Electric Power Company's D. C. Cook Plant is a two-reactor facility located near Bridgman, Michigan. D. C. Cook I, a 3250 MWt PWR, commenced operation in early 1975 and has operated essentially continuously through September 1997. D. C. Cook II, a 3411 MWt PWR, commenced electrical power production in 1978 and, with the exception of a steam generator replacement in 1988, has operated essentially continuously through September 1997. American Electric Power Company shut down both reactors of the D. C. Cook Plant in September 1997 due to concerns raised regarding the long-term reliability of reactor and reactor containment cooling systems. Both reactors were restarted during 2000 (Unit II in June 2000 and Unit I in December 2000) and operated essentially continuously since their restart. MREMP surveillance of the D. C. Cook Plant was initiated in 1971.

Fermi 2

Fermi 2, Michigan's newest nuclear power plant, is located on the same site as was the original Enrico Fermi Atomic Power Plant near Monroe, Michigan. Fermi 2, a 3430 MWt BWR, achieved initial criticality in June 1985 but, due to a variety of problems, did not start reliable electrical power production until November 1988. Fermi 2 experienced a routine operational history until Christmas Day in 1993, when a failure of one of the low pressure turbines caused major damage to the turbine and the main generator. After a 13-month outage to repair the damaged nonnuclear plant components and clean up the affected areas of the plant, the plant was once again operational and has been in routine power production mode ever since. Since the Fermi 2 Plant is adjacent to the Enrico Fermi Plant, MREMP surveillance of the plant was technically initiated in 1958. Monitoring at the plant site was scaled back in 1975, with the completion of the major portion of the original Enrico Fermi Plant decommissioning, and expanded in the fall of 1983 just prior to the scheduled initial date of operation for Fermi 2.

Environmental Monitoring Phases

The purpose of the MREMP is to assess the environmental impact from operating nuclear power plants in Michigan and to determine any public health impact that may be the result of plant operations. This program also provides verification of the plant operated effluent monitoring system for each nuclear plant, as well as its associated radiological environmental monitoring network, and also serves as an in-place sampling network in the event of an accidental release. Atmospheric, terrestrial, aquatic, and direct radiation pathways are monitored to determine the potential impact of nuclear power plant operations on the environment and public health.

Preoperational environmental samples are collected and analyzed to provide background data on natural radioactivity and/or man-made sources of radioactivity in the vicinity of a planned operational nuclear power plant. Data accumulated during the preoperational period establish a baseline with which to compare operational measurements. A minimum of one year of data is usually collected prior to reactor operation for an adequate preoperational monitoring program. For all four nuclear power plant sites in Michigan, at least two years of data were collected. In addition to the preoperational monitoring conducted in the environs of Michigan's four nuclear power plant sites, a background reference station is operated in Lansing, Michigan, for data comparison.

The operational phase of the radiological environmental monitoring program is a natural extension of the preoperational monitoring program. Once the reactor becomes operational, environmental samples are collected from the network of sampling sites established for the preoperational phase, and individual and cumulative measurement results are compared to baseline data to discern any trends that may be indicative of the impact of plant operations. Measurement results from each of the nuclear plant areas are also compared to the results from the Lansing reference station, as well as the results from the other plant environs to ensure that data anomalies and/or trends are adequately assessed. The Palisades, D. C. Cook, and Fermi 2 Plants are currently in this phase of monitoring.

The post-operational phase of the radiological environmental monitoring program is initiated at the conclusion of the operational phase. When the plant is shut down for decommissioning, environmental samples are collected from the network of sampling sites established for preoperational and operational monitoring. Individual and cumulative measurement results are compared to baseline data to discern any trends that may be indicative of the impact of plant activities during the final phase of the plant's operations. During this final phase of environmental monitoring, the number of samples and the frequency of sample collection are often reduced as the plant decommissioning nears completion. The Big Rock Point Plant has essentially completed this phase of monitoring with only direct radiation monitoring continuing at the Interim Spent Fuel Storage Installation remaining.

Atmospheric Monitoring

Sampling Network

The atmospheric monitoring network consists of two to five sampling stations in the vicinity of each of the four Michigan nuclear power plant sites and a background reference station in Lansing. At each station a highly efficient vacuum pump continuously draws ambient air, first through a particulate filter and then through a charcoal filter to collect air particulates and air vapors, respectively. Particulate filters are analyzed for gross beta activity three days after the end of sample collection, and charcoal filters are analyzed as soon as possible after the end of sample collection for the presence of radioactive iodine isotopes. Radiation atmospheric monitoring in Michigan was initiated in November 1958, with the first sampling station at the Fermi Plant site. Air monitoring stations were added to the Fermi site vicinity, as well as setting up multiple sampling stations in the vicinities of the Big Rock Point (July 1960), Palisades (November 1968), and D. C. Cook (September 1971) Plant sites. The background reference station in Lansing became operational in February 1961. Air monitoring stations were discontinued in the vicinity of the Big Rock Point site in September 2006, with the completion of the plant decommissioning project.

Historical and Preoperational Atmospheric Monitoring

A detailed presentation of both historical and preoperational atmospheric monitoring results, historical monitoring trends, and determination of preoperational air monitoring baselines for the four Michigan nuclear power plant areas were presented in the *MREMP Report 1958-1996*. These detailed discussions are not repeated in this report, but updated versions of two atmospheric monitoring historical plots are shown in Figures 1 and 2. Air particulate activities are reported in units of picocuries per cubic meter (pCi/m^3). The air monitoring baseline analyses are presented in Tables 1-4 for each of the four plants.

The plot of the monthly average air particulate gross beta activity for the longest running MREMP air station, at the Fermi Plant site, has been updated with the additional three years of data and is shown in Figure 1. Also, the quarterly average air particulate activity for the four nuclear plant sites along with the Lansing background reference site is updated through 2007 and is shown in Figure 2. Visual examination of the two figures reveals that the additional three years of monitoring results are essentially a continuation of the natural background trend that has prevailed since the Chernobyl accident in 1986.

Figure 1

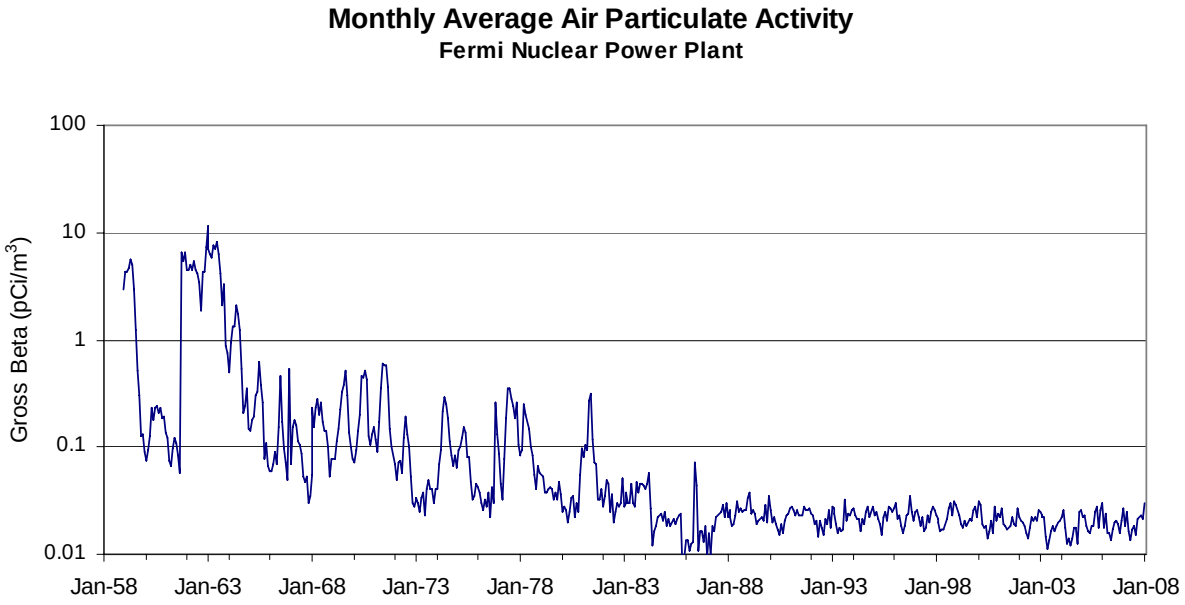
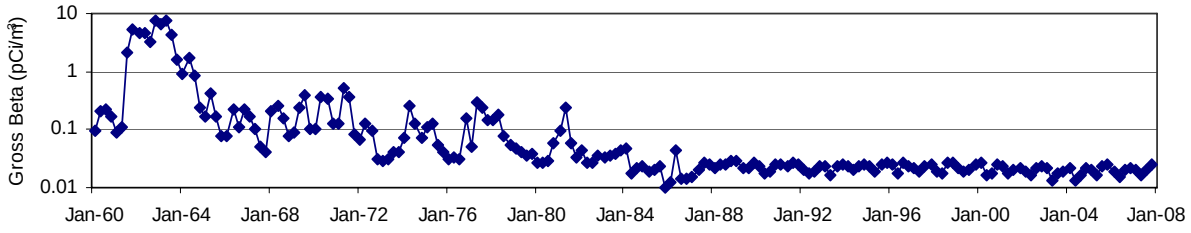
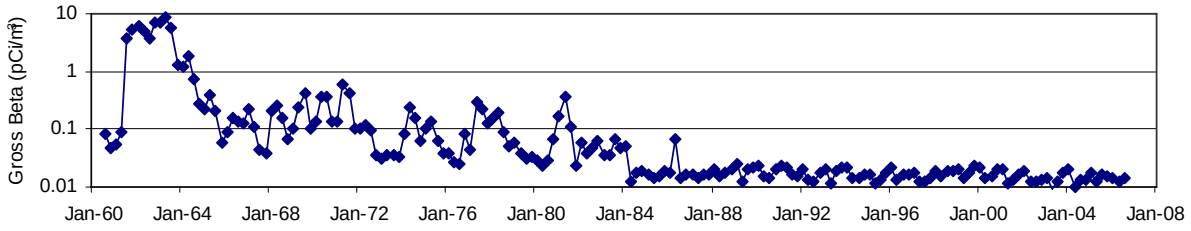


Figure 2

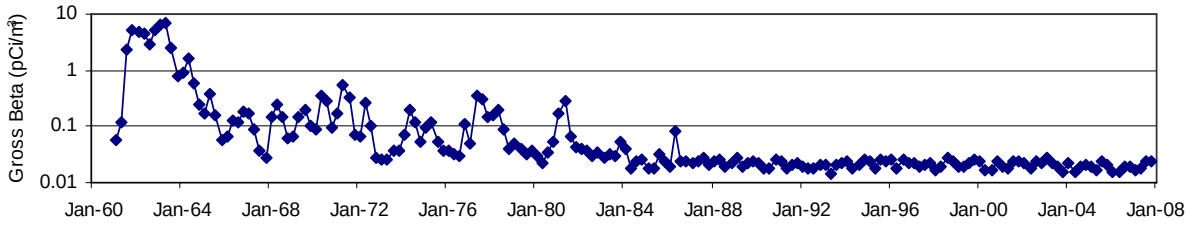
Quarterly Average Air Particulate Activity
Fermi Nuclear Power Plant Site



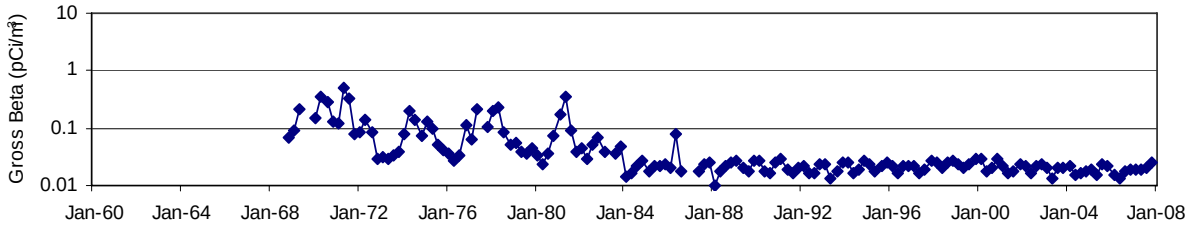
Quarterly Average Air Particulate Activity
Big Rock Point Nuclear Power Plant Site



Quarterly Average Air Particulate Activity
Lansing Background Reference Site



Quarterly Average Air Particulate Activity
Palisades Nuclear Power Plant Site



Quarterly Average Air Particulate Activity
D. C. Cook Nuclear Power Plant Site

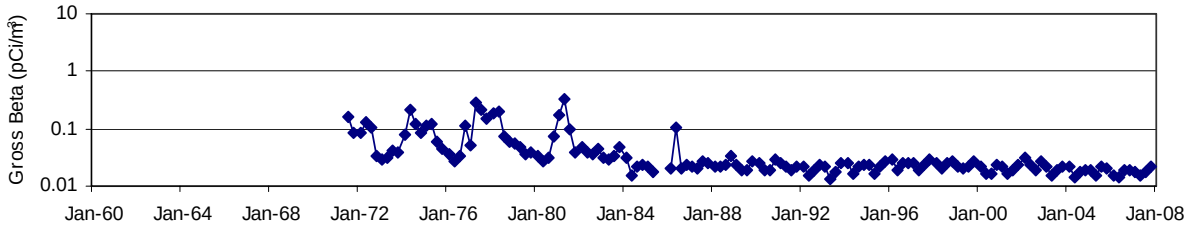


Table 1 **BIG ROCK POINT PREOPERATIONAL AIR PARTICULATE MONITORING RESULTS**			
	Reactor Site	Charlevoix	Burgess
Number of Samples	58	60	60
Highest Result (pCi/m^3)	0.13	0.15	0.14
Lowest Result (pCi/m^3)	0.02	0.02	0.03
Arithmetic Mean (pCi/m^3)	0.07	0.07	0.07
Geometric Mean(pCi/m^3)	0.06	0.06	0.06

Table 2 **PALISADES PREOPERATIONAL AIR PARTICULATE MONITORING RESULTS**			
	Reactor Site	Covert	South Haven
Number of Samples	57	55	44
Highest Result (pCi/m^3)	0.70	0.92	0.64
Lowest Result (pCi/m^3)	0.06	0.06	0.07
Arithmetic Mean (pCi/m^3)	0.24	0.25	0.25
Geometric Mean (pCi/m^3)	0.19	0.20	0.21

Table 3 **D. C. COOK PREOPERATIONAL AIR PARTICULATE MONITORING RESULTS**					
	Reactor Site	Bridgman	Stevensville	Livingston Road	Peddy Farm
Number of Samples	48	22	30	25	28
Highest Result (pCi/m^3)	0.34	0.24	0.37	0.37	0.20
Lowest Result (pCi/m^3)	0.04	0.05	0.04	0.04	0.03
Arithmetic Mean (pCi/m^3)	0.13	0.13	0.11	0.09	0.10
Geometric Mean (pCi/m^3)	0.11	0.11	0.09	0.08	0.08

Table 4 **FERMI 2 PREOPERATIONAL AIR PARTICULATE MONITORING RESULTS**						
	Reactor Site	Rockwood	Pointe Aux Peaux Rd.	Nadeau Rd.	Dixie Hwy.	Fix Farm
Number of Samples	125	132	106	130	127	131
Highest Result (pCi/m^3)	0.09	0.09	0.08	0.11	0.07	0.07
Lowest Result (pCi/m^3)	0.01	0.01	0.01	0.01	0.01	0.01
Arithmetic Mean (pCi/m^3)	0.03	0.03	0.03	0.03	0.03	0.03
Geometric Mean (pCi/m^3)	0.03	0.02	0.03	0.03	0.03	0.03

Atmospheric Monitoring 2005-2007

The air particulate monitoring results from the four nuclear power plant areas and the Lansing background reference station were very consistent with recent years. During the 2005-2007 monitoring period, air particulate levels remained at natural background levels, with no discernible increasing or decreasing trends. There were no air vapor Iodine-131 (^{131}I) results exceeding the analytical minimum detectable activity (MDA) level of 0.02 to 0.03 pCi/m^3, decay corrected to the end of sample, for samples collected during the three-year period. Details of the air particulate gross beta monitoring results for each of the four plants with comparisons to their respective preoperational baseline data and to the Lansing station are discussed below. Also, plots of gross beta results of each station for 2005-2007 are shown in Figures 3-18. The air monitoring results in tabular form are presented in Appendix A of this report.

Big Rock Point

Atmospheric monitoring for Big Rock Point for 2005-2006 consisted of the two monitoring stations; one at the reactor site and one southwest of the plant site in Charlevoix. For the almost two-year period, there were no distinguishable peaks or trends in the gross beta results for the two stations, with the levels oscillating between the extremes of 0.003 pCi/m^3 and 0.030 pCi/m^3. Gross beta data from the two stations were analyzed for central tendencies and measurement extremes, and the results of these analyses are presented in Table 5.

Table 5 **BIG ROCK POINT AIR PARTICULATE MONITORING RESULTS 2005-2006**		
2005 Monitoring Results		
	Reactor Site	Charlevoix
Number of Samples	52	53
Highest Result (pCi/m^3)	0.030	0.030
Lowest Result (pCi/m^3)	0.004	0.003
Arithmetic Mean (pCi/m^3)	0.015	0.014
Geometric Mean (pCi/m^3)	0.014	0.012
2006 Monitoring Results		
	Reactor Site	Charlevoix
Number of Samples	32	38
Highest Result (pCi/m^3)	0.021	0.019
Lowest Result (pCi/m^3)	0.005	0.007
Arithmetic Mean (pCi/m^3)	0.014	0.013
Geometric Mean (pCi/m^3)	0.013	0.013

The average air particulate gross beta concentration during the preoperational monitoring period was 0.070 pCi/m^3 for the Big Rock Point area. This preoperational average is four to five times higher than the 2005-2006 area average concentration of 0.014 pCi/m^3. The average air particulate gross beta concentration for the Lansing background reference station during 2005-2006 was 0.019 pCi/m^3, which is almost 50 percent higher than the Big Rock Point area average and is consistent with results from previous years.

Palisades

Three atmospheric monitoring stations were operated in the environs of the Palisades Plant during 2005-2007 period: one at the reactor site, a second north of the plant in South Haven, and the third southeast of the plant near Covert. There were no distinguishable peaks or trends in the gross beta results for all three stations during the three-year period, with the levels oscillating between the extremes of 0.004 pCi/m^3 and 0.046 pCi/m^3. Gross beta data from the three stations were analyzed for central tendencies and measurement extremes and are presented in Table 6.

Table 6 **PALISADES AIR PARTICULATE MONITORING RESULTS 2005-2007**			
2005 Monitoring Results			
	Reactor Site	Covert	South Haven
Number of Samples	52	51	51
Highest Result (pCi/m^3)	0.046	0.037	0.041
Lowest Result (pCi/m^3)	0.007	0.004	0.006
Arithmetic Mean (pCi/m^3)	0.020	0.015	0.020
Geometric Mean (pCi/m^3)	0.019	0.014	0.018
2006 Monitoring Results			
	Reactor Site	Covert	South Haven
Number of Samples	53	51	52
Highest Result (pCi/m^3)	0.028	0.022	0.045
Lowest Result (pCi/m^3)	0.007	0.005	0.007
Arithmetic Mean (pCi/m^3)	0.017	0.013	0.018
Geometric Mean (pCi/m^3)	0.016	0.013	0.017
2007 Monitoring Results			
	Reactor Site	Covert	South Haven
Number of Samples	50	52	45
Highest Result (pCi/m^3)	0.039	0.031	0.040
Lowest Result (pCi/m^3)	0.009	0.007	0.009
Arithmetic Mean (pCi/m^3)	0.021	0.016	0.020
Geometric Mean (pCi/m^3)	0.020	0.015	0.018

The average air particulate gross beta concentration during the preoperational monitoring period was 0.25 pCi/m^3 for the Palisades Plant area. This preoperational average was about twelve times higher than the area average concentration of 0.018 pCi/m^3, for 2005-2007 period. The average air particulate gross beta concentration for the Lansing background reference station was 0.019 pCi/m^3 during the 2005-2007 period, which is very similar to the average level of the three Palisades stations.

D. C. Cook

Five atmospheric monitoring stations were operated in the environs of the D. C. Cook Plant during 2005-2007. One is located at the reactor site; a second is south of the plant in Bridgman; a third is northeast of the plant in Stevensville; a fourth is at the west end of Livingston Road near the south boundary of the plant site; and a fifth is about three miles due east of the plant. There were no distinguishable peaks or trends in the gross beta results for all five stations during the 2005-2007 period, with the levels oscillating between the extremes of 0.006 pCi/m^3 and 0.052 pCi/m^3. Gross beta data from the five stations were analyzed for central tendencies and measurement extremes. The results of these analyses are presented in Table 7.

Table 7 **D. C. COOK AIR PARTICULATE MONITORING RESULTS 2005-2007**					
2005 Monitoring Results					
	Reactor Site	Bridgman	Stevensville	Livingston Road	Peddy Farm
Number of Samples	52	52	52	52	48
Highest Result (pCi/m^3)	0.045	0.044	0.043	0.045	0.056
Lowest Result (pCi/m^3)	0.008	0.007	0.006	0.007	0.009
Arithmetic Mean (pCi/m^3)	0.019	0.022	0.021	0.020	0.021
Geometric Mean (pCi/m^3)	0.018	0.020	0.019	0.019	0.020
2006 Monitoring Results					
	Reactor Site	Bridgman	Stevensville	Livingston Road	Peddy Farm
Number of Samples	52	53	51	52	53
Highest Result (pCi/m^3)	0.028	0.034	0.034	0.033	0.028
Lowest Result (pCi/m^3)	0.008	0.008	0.009	0.008	0.009
Arithmetic Mean (pCi/m^3)	0.017	0.019	0.017	0.017	0.018
Geometric Mean (pCi/m^3)	0.016	0.018	0.017	0.016	0.017
2007 Monitoring Results					
	Reactor Site	Bridgman	Stevensville	Livingston Road	Peddy Farm
Number of Samples	51	50	51	51	52
Highest Result (pCi/m^3)	0.037	0.034	0.052	0.035	0.043
Lowest Result (pCi/m^3)	0.011	0.009	0.010	0.006	0.011
Arithmetic Mean (pCi/m^3)	0.018	0.021	0.022	0.019	0.020
Geometric Mean (pCi/m^3)	0.018	0.020	0.021	0.018	0.019

The average air particulate gross beta concentration during the preoperational monitoring period was 0.11 pCi/m^3 for the D. C. Cook Plant area. This preoperational gross beta concentration is almost six times higher than the average concentration of 0.019 pCi/m^3, for the 2005-2007 monitoring period. The average air particulate gross beta concentration for the Lansing background reference station was 0.019 pCi/m^3 during the 2005-2007 period, which is the same as the area average levels at the five D. C. Cook stations.

Fermi 2

Five atmospheric monitoring stations were operated in the environs of the Fermi 2 Plant during 2005-2007. One is located at the reactor site, a second south of the plant on Pointe Aux Peaux Road, a third southwest of the plant on Nadeau Road, a fourth on Dixie Highway due west of the plant, and the fifth station at the Fix Farm, northwest of the plant on Post Road. There were no distinguishable peaks or trends in the gross beta results for all five stations during the 2005-2007 period, with the levels oscillating between the extremes of 0.005 pCi/m^3 and 0.049 pCi/m^3. Gross beta data from the five stations were analyzed for central tendencies and measurement extremes. The results of these analyses are presented in Table 8.

Table 8 **FERMI 2 AIR PARTICULATE MONITORING RESULTS 2005-2007**					
2005 Monitoring Results					
	Reactor Site	Pointe Aux Peaux Rd.	Nadeau Rd.	Dixie Hwy.	Fix Farm
Number of Samples	52	52	52	52	52
Highest Result (pCi/m^3)	0.037	0.040	0.033	0.031	0.039
Lowest Result (pCi/m^3)	0.005	0.006	0.005	0.006	0.007
Arithmetic Mean (pCi/m^3)	0.022	0.021	0.017	0.019	0.021
Geometric Mean (pCi/m^3)	0.020	0.019	0.016	0.018	0.020
2006 Monitoring Results					
	Reactor Site	Pointe Aux Peaux Rd.	Nadeau Rd.	Dixie Hwy.	Fix Farm
Number of Samples	52	52	50	51	52
Highest Result (pCi/m^3)	0.033	0.031	0.033	0.033	0.032
Lowest Result (pCi/m^3)	0.010	0.009	0.006	0.005	0.009
Arithmetic Mean (pCi/m^3)	0.019	0.018	0.015	0.018	0.018
Geometric Mean (pCi/m^3)	0.018	0.018	0.014	0.017	0.017
2007 Monitoring Results					
	Reactor Site	Pointe Aux Peaux Rd.	Nadeau Rd.	Dixie Hwy.	Fix Farm
Number of Samples	52	50	44	52	52
Highest Result (pCi/m^3)	0.039	0.034	0.049	0.037	0.036
Lowest Result (pCi/m^3)	0.010	0.010	0.005	0.011	0.011
Arithmetic Mean (pCi/m^3)	0.020	0.020	0.019	0.021	0.020
Geometric Mean (pCi/m^3)	0.019	0.019	0.017	0.020	0.019

The area average air particulate gross beta concentration during the preoperational monitoring period was 0.03 pCi/m^3 for Fermi 2. This preoperational gross beta concentration is just slightly higher than the area average concentrations of 0.019 pCi/m^3 measured during the 2005-2007 period. The average air particulate gross beta concentration for the Lansing background reference station was 0.019 pCi/m^3 during the 2005-2007 period, which is the same as the area average level measured in the Fermi 2 area.

Figure 3

Air Particulate Monitoring

Big Rock Point Reactor Site 2005-2007

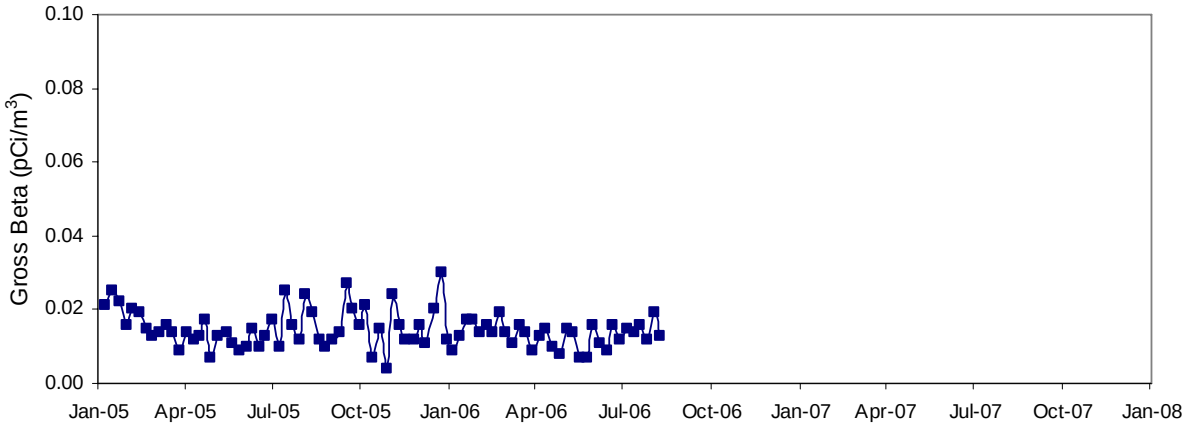


Figure 4

Air Particulate Monitoring

Big Rock Point Charlevoix Site 2005-2007

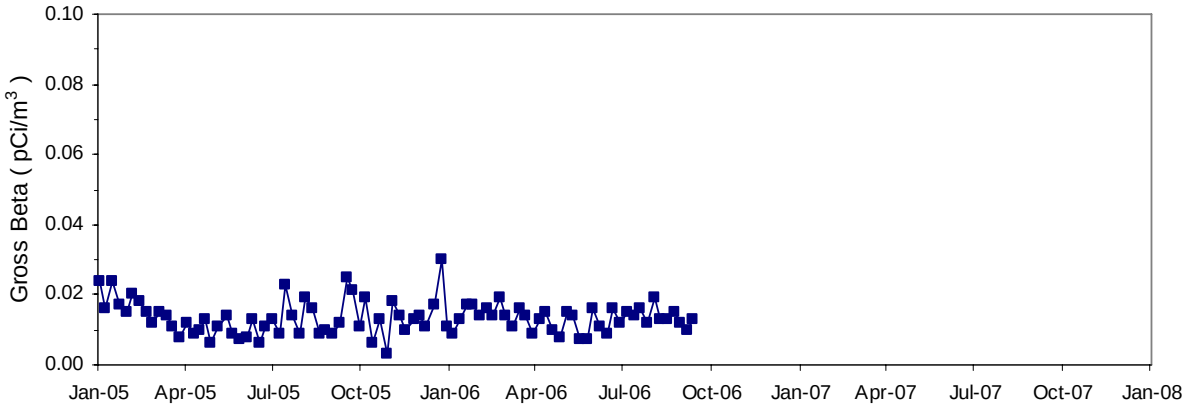


Figure 5

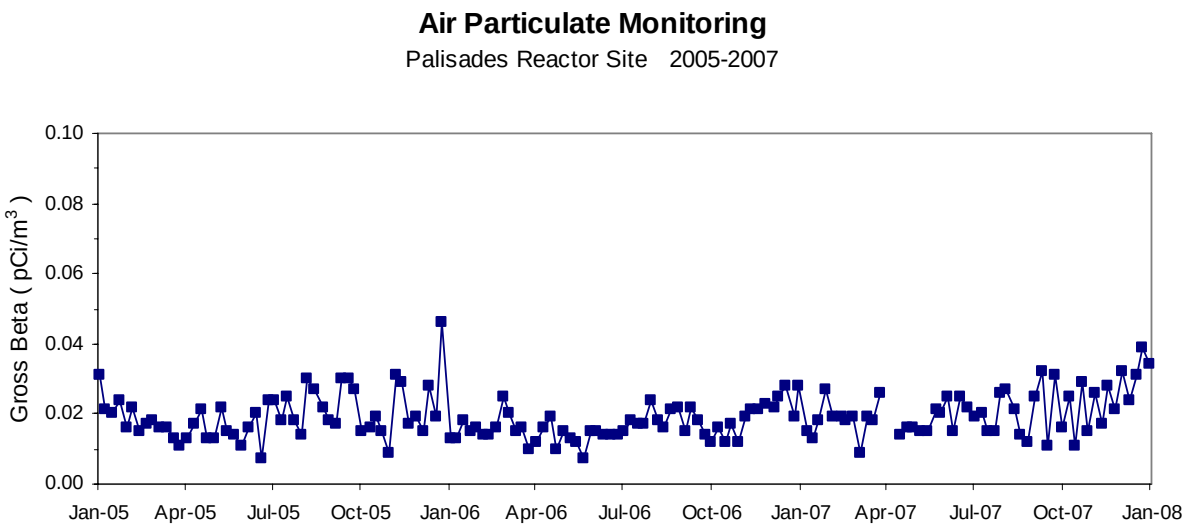


Figure 6

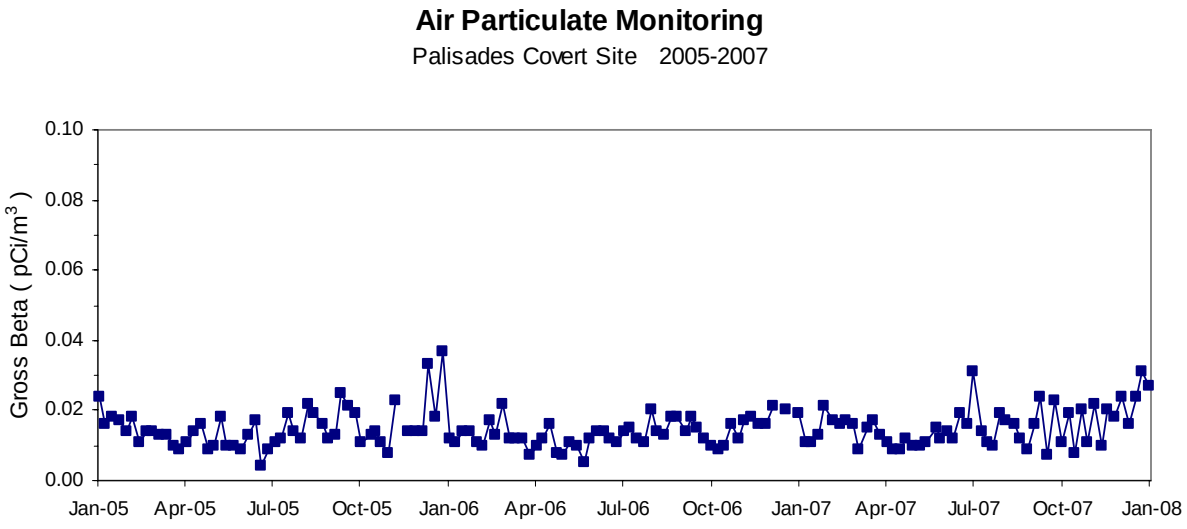


Figure 7

Air Particulate Monitoring

Palisades South Haven Site 2005-2007

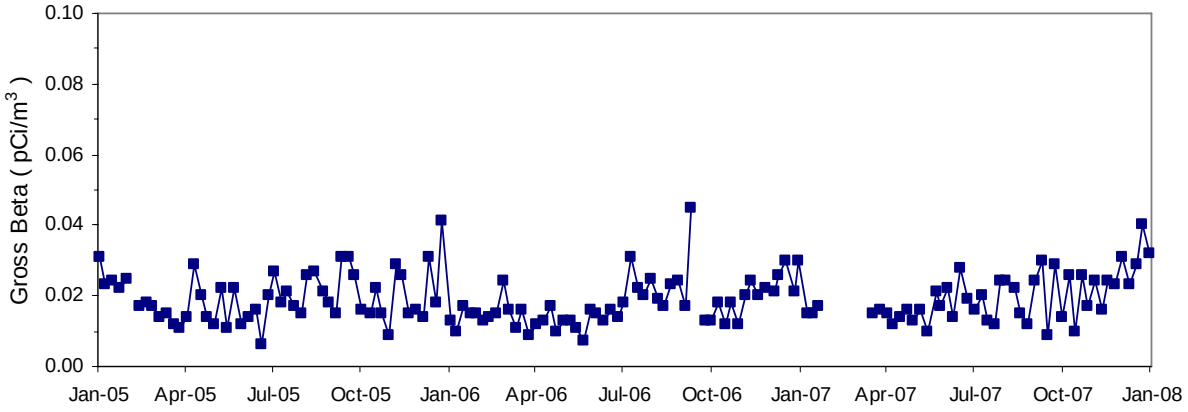


Figure 8

Air Particulate Monitoring

D. C. Cook Reactor Site 2005-2007

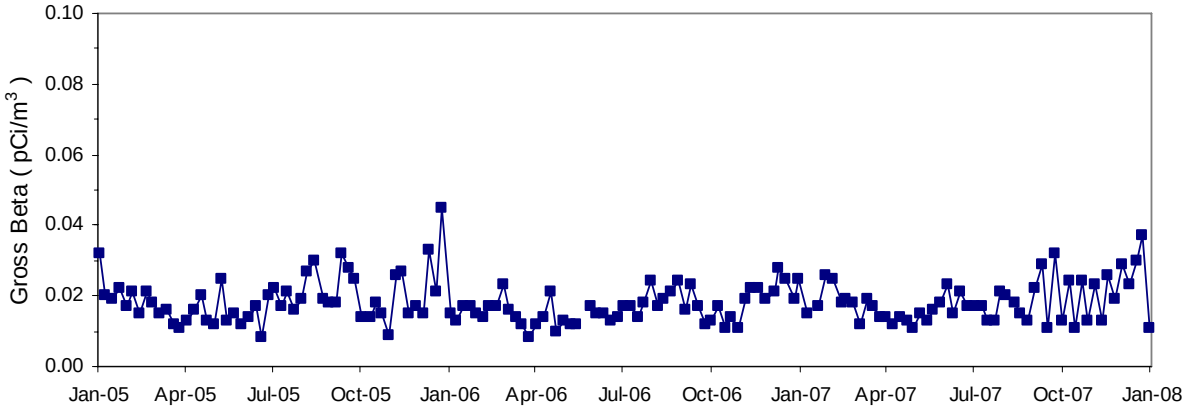


Figure 9

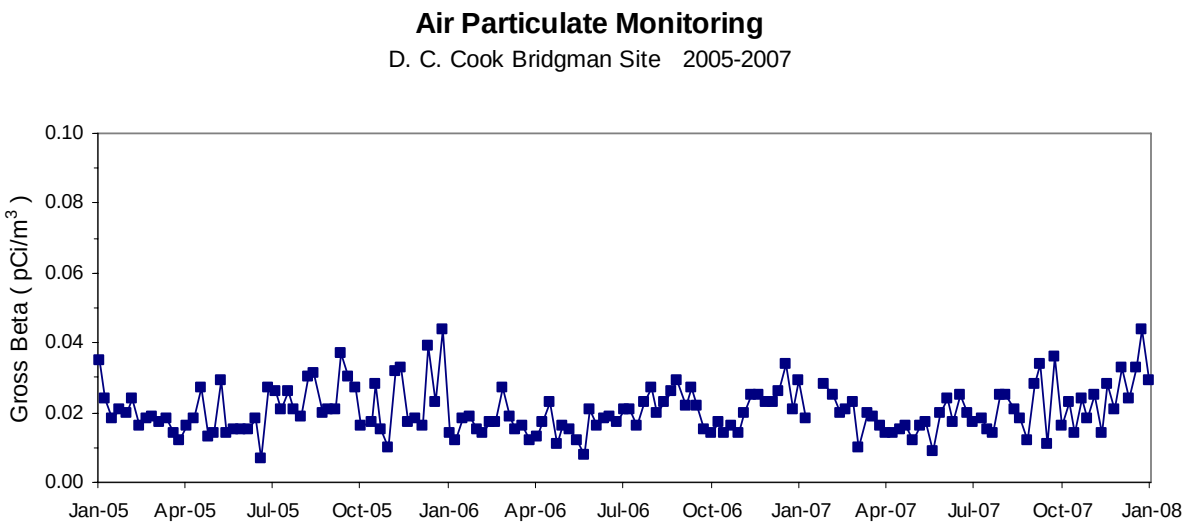


Figure 10

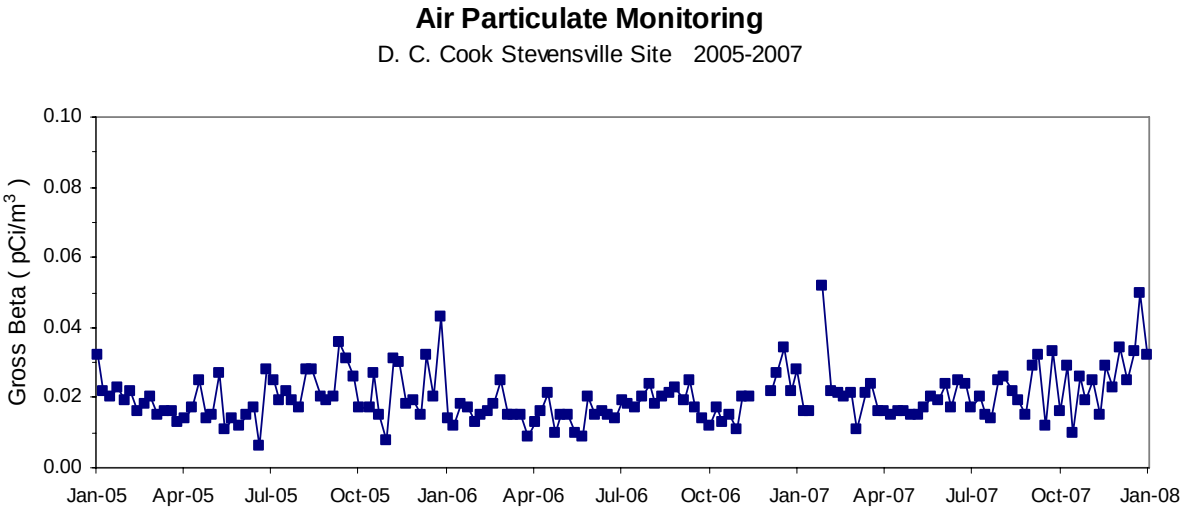


Figure 11

Air Particulate Monitoring

D. C. Cook Livingston Road Site 2005-2007

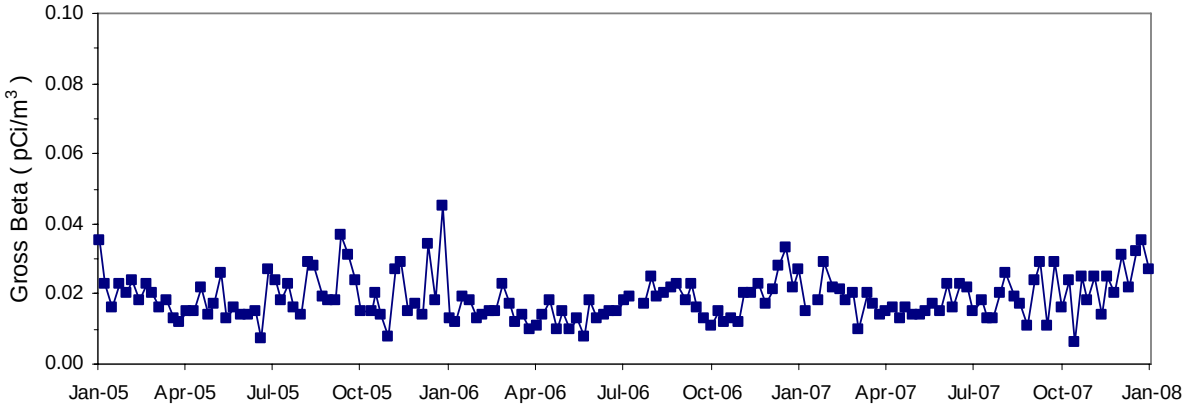


Figure 12

Air Particulate Monitoring

D. C. Cook Peddy Farm Site 2005-2007

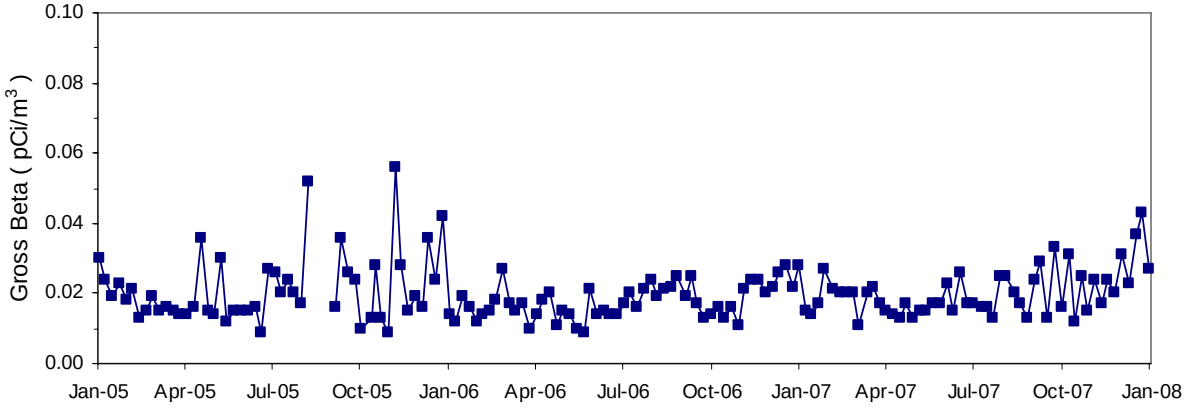


Figure 13

Air Particulate Monitoring

Fermi 2 Reactor Site 2005-2007

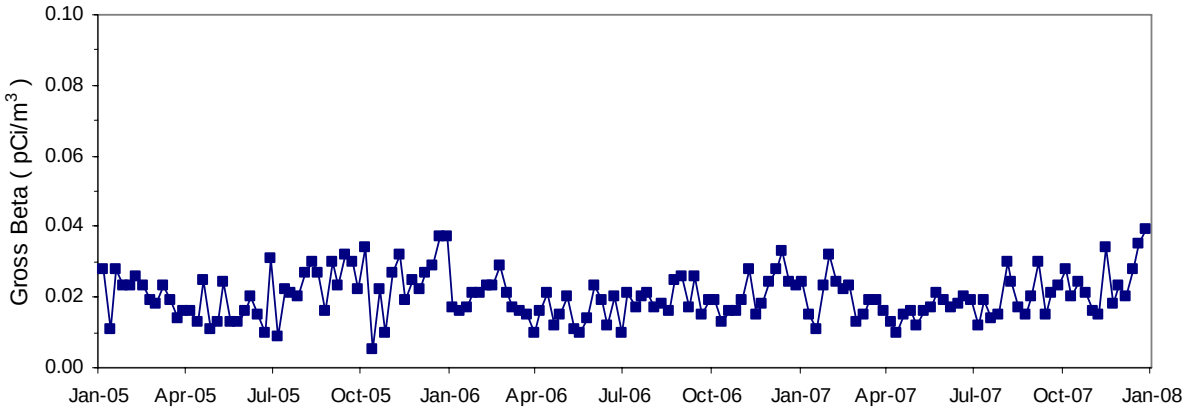


Figure 14

Air Particulate Monitoring

Fermi 2 Pointe Aux Peaux Road Site 2005-2007

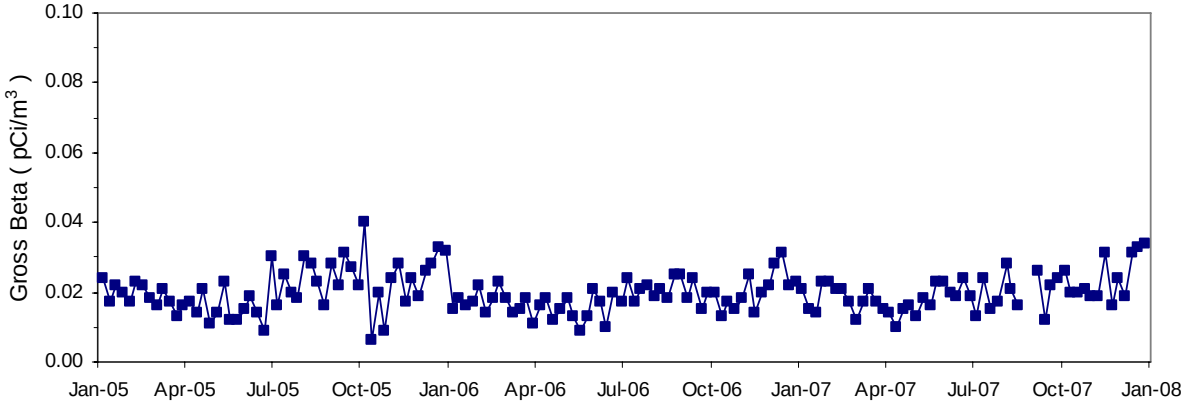


Figure 15

Air Particulate Monitoring

Fermi 2 Nadeau Road Site 2005-2007

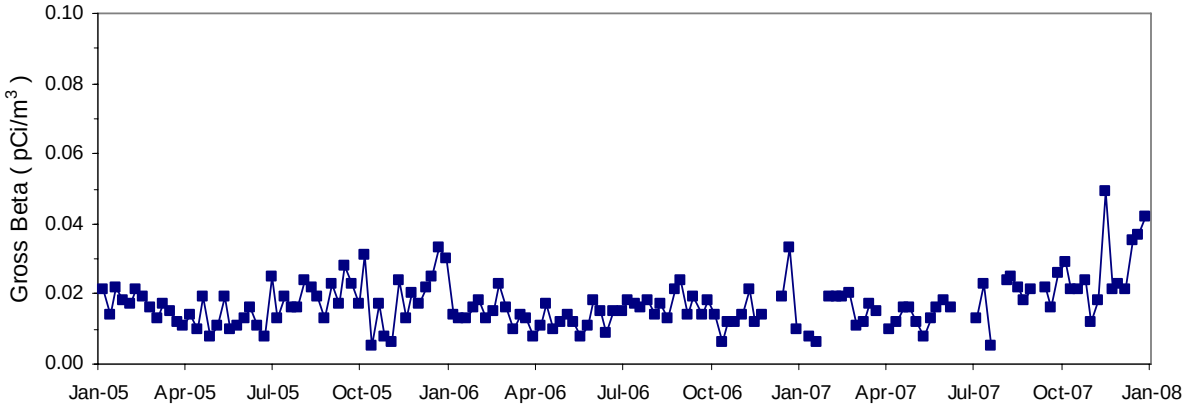


Figure 16

Air Particulate Monitoring

Fermi 2 Dixie Highway Site 2005-2007

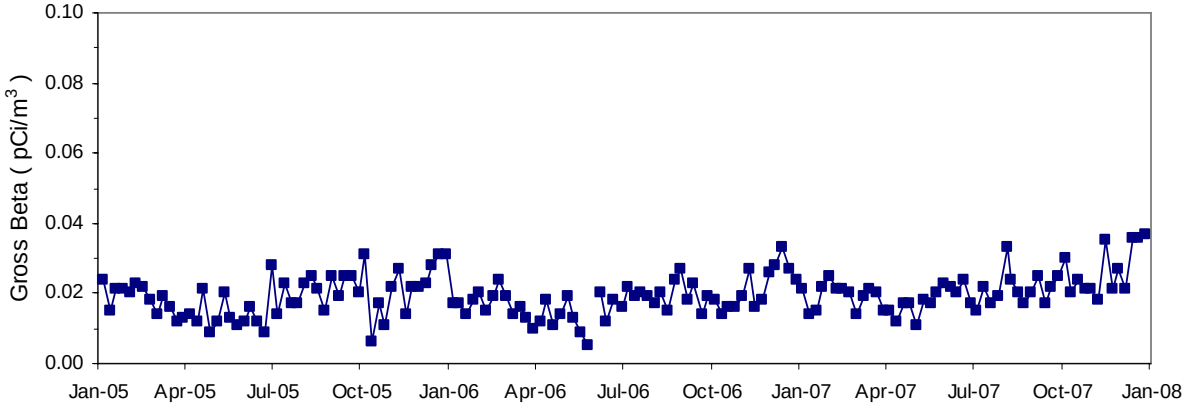


Figure 17

Air Particulate Monitoring

Fermi 2 Fix Farm Site 2005-2007

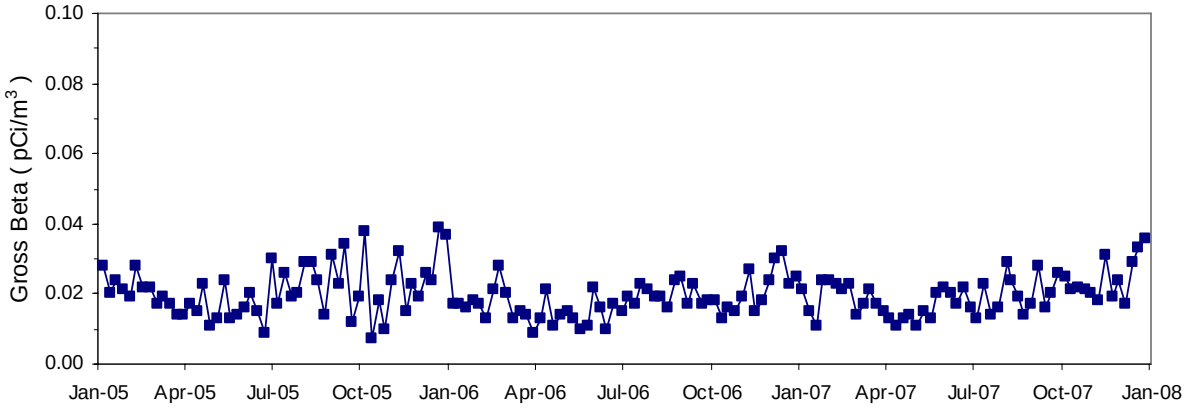
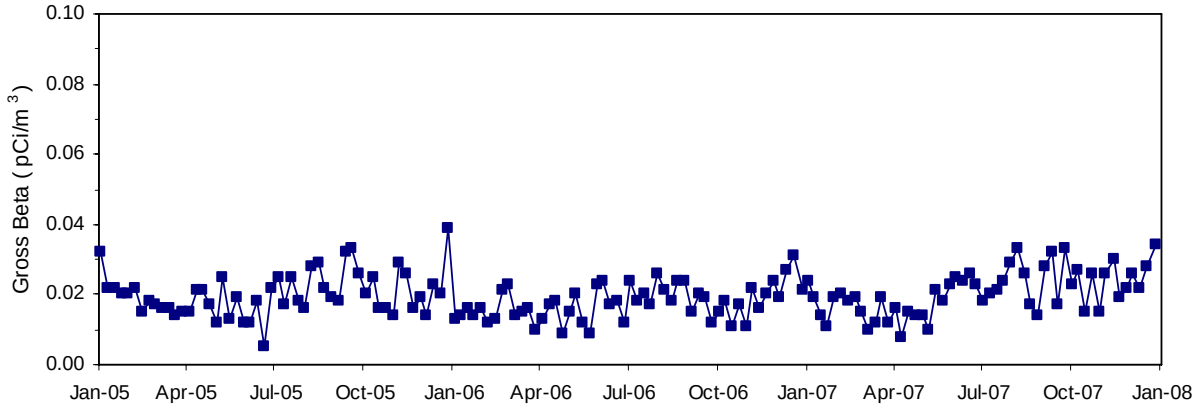


Figure 18

Air Particulate Monitoring

Lansing Background Reference Site 2005-2007



Terrestrial Monitoring

Sampling Network

The terrestrial monitoring network consists of seven milk sampling stations: three of which are located near the state's nuclear power plants, and the other four scattered around the state for geographical and population coverage. Sampling at the Charlevoix, Detroit, Grand Rapids, Lansing, Marquette, and Monroe milk stations was initiated in late 1962 and the South Haven milk station was added in 1969. The Charlevoix station was discontinued in September 2006 with the completion of the Big Rock Point Plant decommissioning project. Biweekly samples are collected for the Charlevoix, Lansing, Marquette, Monroe, and South Haven stations; and monthly samples are collected for the Detroit and Grand Rapids stations. Pasteurized milk samples from a local dairy were collected for all seven stations until the late 1970s. During the late 1970s and the early 1980s, all local dairies in the Charlevoix, Monroe, and South Haven areas closed and sampling for these three stations was shifted to raw milk samples from a local dairy farm. Pasteurized milk samples, collected from a local dairy or retail outlet, for the Detroit, Grand Rapids, Lansing, and Marquette stations have continued through 2007. All samples are analyzed for gamma emitting radionuclides, with Iodine-131 (^{131}I) and cesium-137 (^{137}Cs) of particular interest. Radionuclide activity results for milk are reported in units of picocuries per liter (pCi/l).

Historical Terrestrial Monitoring Trends

Historical and preoperational milk monitoring results, historical monitoring trends, and the determination of preoperational milk monitoring baselines for the four plant areas was presented in detail in *MREMP Report 1958-1996*. These discussions are not repeated in this report, but the final results of the preoperational baseline analysis are presented in Tables 9-12 for comparison with the 2005 through 2007 milk monitoring results.

Table 9
BIG ROCK POINT PREOPERATIONAL MILK MONITORING RESULTS

1963 Milk Monitoring Results	^{131}I (pCi/l)	^{137}Cs (pCi/l)
Charlevoix Average	Less than 20	136
Charlevoix Highest	Less than 20	232
Charlevoix Lowest	Less than 20	70
Statewide Average without Charlevoix	Less than 20	119
1964 Milk Monitoring Results		
Charlevoix Average	Less than 20	137
Charlevoix Highest	Less than 20	182
Charlevoix Lowest	Less than 20	71
Statewide Average without Charlevoix	Less than 20	116

Table 10 **PALISADES PREOPERATIONAL MILK MONITORING RESULTS**		
1969 Milk Monitoring Results	^{131}I (pCi/l)	^{137}Cs (pCi/l)
South Haven Average	Less than 14	11
South Haven Highest	Less than 14	16
South Haven Lowest	Less than 14	6
Statewide Average without South Haven	Less than 14	15
1970 Milk Monitoring Results		
South Haven Average	Less than 14	11
South Haven Highest	Less than 14	41
South Haven Lowest	Less than 14	Less than 6
Statewide Average without South Haven	Less than 14	14

Table 11 **D. C. COOK PREOPERATIONAL MILK MONITORING RESULTS**		
1973 Milk Monitoring Results	^{131}I (pCi/l)	^{137}Cs (pCi/l)
South Haven Average	Less than 14	6
South Haven Highest	Less than 14	20
South Haven Lowest	Less than 14	Less than 6
Statewide Average without South Haven	Less than 14	7
1974 Milk Monitoring Results		
South Haven Average	Less than 14	8
South Haven Highest	Less than 14	17
South Haven Lowest	Less than 14	Less than 6
Statewide Average without South Haven	Less than 14	9

Table 12 **FERMI 2 PREOPERATIONAL MILK MONITORING RESULTS**		
1983 Milk Monitoring Results	^{131}I (pCi/l)	^{137}Cs (pCi/l)
Monroe Average	Less than 6	Less than 5
Monroe Highest	Less than 6	13
Monroe Lowest	Less than 6	Less than 5
Statewide Average without Monroe	Less than 6	Less than 5
1984 Milk Monitoring Results		
Monroe Average	Less than 6	Less than 5
Monroe Highest	Less than 6	6
Monroe Lowest	Less than 6	Less than 5
Statewide Average without Monroe	Less than 6	Less than 5

Terrestrial Monitoring 2005-2007

Almost all of the milk monitoring results for the 431 samples analyzed during the three-year period were less than the MDA levels. The number of samples analyzed and the average analytical MDA levels for each monitoring station are delineated in Table 13. There were no samples with ^{131}I exceeding the MDA levels during the three-year period. Two of the 431 milk samples had detectable levels of ^{137}Cs, with an average measured level of 3.5 pCi/l, which is almost identical to the average analytical MDA level for ^{137}Cs. With only 0.5 percent of the samples analyzed indicating detectable amounts of ^{137}Cs at levels almost equal to the analytical MDA, milk produced in Michigan is now almost virtually free of these long-lived radionuclides from past atmospheric fallout.

There were no discernible trends for the 2005-2007 milk results, with only two of the seven stations indicating one sample with detectable amounts of ^{137}Cs. The two samples with detectable levels of ^{137}Cs were almost the same as the three found during the most recent reported period, 2002-2004. Overall, the milk monitoring results from all sampling stations were lower than levels recorded during preoperational monitoring periods or, in the case of Big Rock Point, during the early years of plant operation. A tabular presentation of MREMP milk monitoring results for 2005-2007 is located in Appendix B. Appendix B also shows the monitoring results for potassium-40 (^{40}K), which is a naturally–occurring radionuclide that is always present in milk.

Table 13
MILK MONITORING RESULT AVERAGES 2005-2007

	Number of Samples	^{131}I (pCi/l)	^{137}Cs (pCi/l)
Charlevoix	45	Less than 4	Less than 3
Detroit	36	Less than 3	Less than 3
Grand Rapids	26	Less than 3	Less than 3
Lansing	78	Less than 2	Less than 2
Marquette	70	Less than 3	Less than 3
Monroe	78	Less than 4	Less than 3
South Haven	98	Less than 3	Less than 3
Statewide	431	Less than 3	Less than 3

Aquatic Monitoring

Sampling Network

The aquatic monitoring network consists of nine surface water sampling stations for the four Michigan nuclear plant sites. A Big Rock Point Plant monthly grab sample was collected from the shoreline in front of the plant until August 2006 when sampling was discontinued due to the completion of site decommissioning activities. A monthly grab sample is collected from the Palisades Plant discharge line when the plant is operational. At the D. C. Cook Plant, monthly grab samples are collected from predischarge holding tanks for each reactor, when the reactors are operational. A monthly surface water grab sample is collected from Lake Erie in front of the Fermi Plant, and four daily composite surface/drinking water sampling stations of the Detroit Edison Company are split with the MREMP on a monthly basis. All samples are analyzed for gamma emitting radionuclides and gross beta and tritium activity.

Historical and Preoperational Aquatic Monitoring

A detailed presentation of both historical and preoperational aquatic monitoring results, historical monitoring trends, and determination of preoperational surface water monitoring baselines for the four Michigan nuclear power plant areas was presented in *MREMP Report 1958-1996*. These detailed discussions are not repeated in this report, but updated versions of four surface water historical plots are shown in Figures 19-22 and the final results of the surface water baseline analysis is presented in Tables 14-17. Visual examination of the historical surface water plots for all four plant sites reveals a continuation of the trend that has prevailed over the last decade.

Figure 19

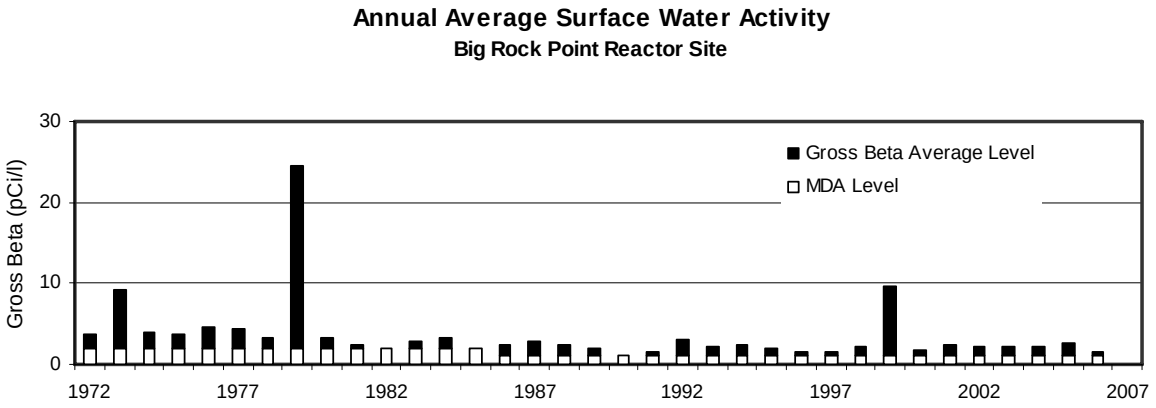


Figure 20

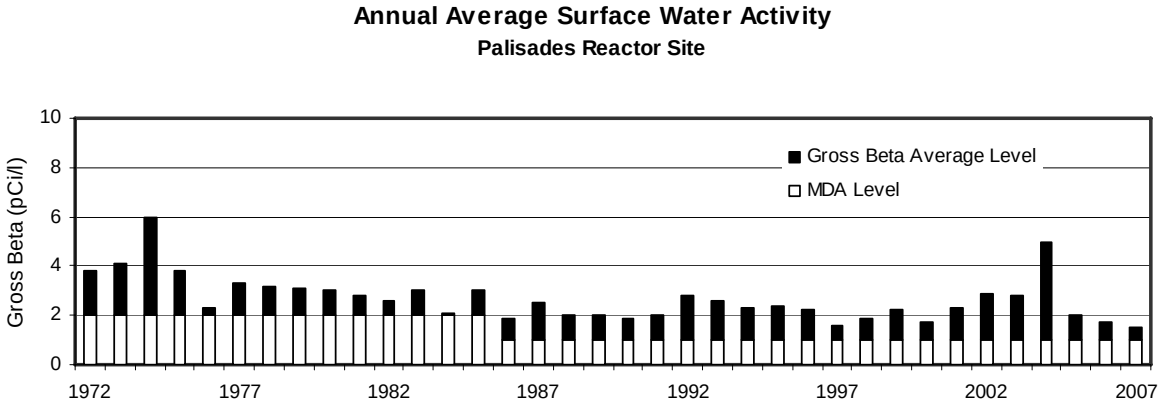


Figure 21

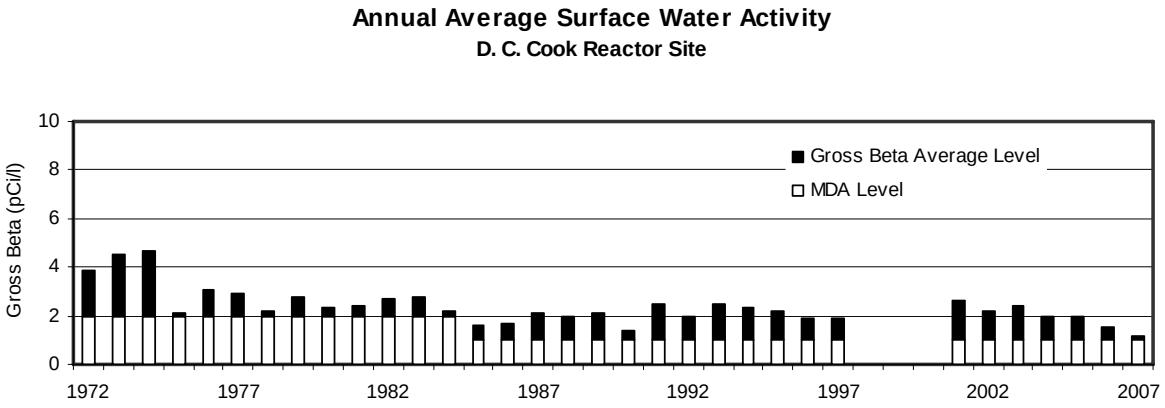


Figure 22

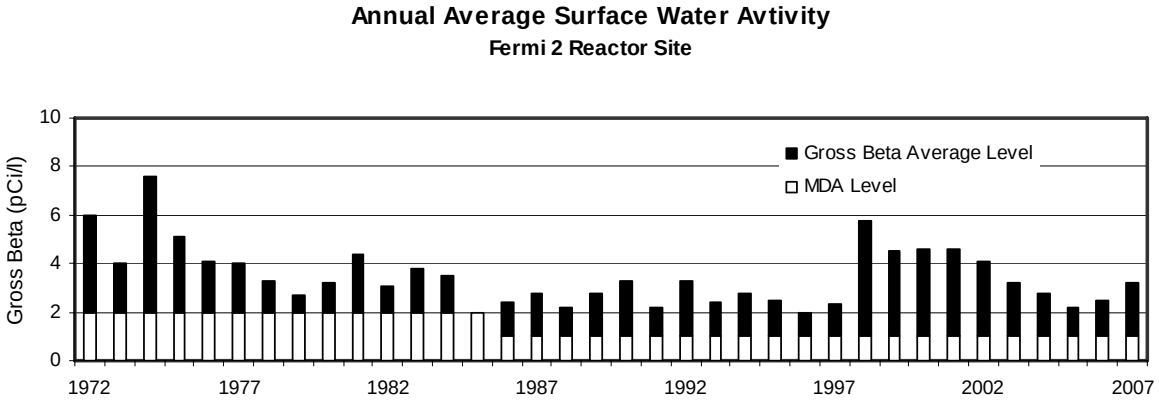


Table 14 **1972-1973 BIG ROCK POINT SURFACE WATER RESULT AVERAGES**		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site	7.1	1100
Reactor Site (without 12/73 sample)	3.8	400
Non-Reactor Sites	3.9	500
Non-Reactor Sites (without 12/73 sample)	3.5	300

Table 15 **1972-1973 PALISADES SURFACE WATER RESULT AVERAGES**		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site	4.0	300
Non-Reactor Sites	5.1	200

Table 16 **1973-1974 D. C. COOK SURFACE WATER RESULT AVERAGES**		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site	4.2	300
Non-Reactor Sites	4.4	300

Table 17 **1983-1984 FERMI 2 SURFACE WATER RESULT AVERAGES**		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site	3.6	200

Aquatic Monitoring 2005-2007

Surface water results during 2005-2007 were generally in alignment with results from recent years with the exception of four Palisades Plant samples tritium results. Measured gross beta levels for all 2000-2007 surface water samples ranged between below the MDA level of 1 pCi/l and 6 pCi/l. Tritium levels over the three years ranged from below the MDA level of 100 pCi/l and 400 pCi/l for all of the surface water monitoring sites, except for Palisades Plant site. During 2005 the March sample had a measured tritium level of 1100 pCi/l and the July 2005 sample had a tritium level of 3,300 pCi/l. In 2006 the December Palisades Plant surface water sample had a tritium level 40,100 pCi/l and in November 2007 the surface water sample tritium result was 72,000 pCi/l. These four surface water samples were collected, as were all the other Palisades surface water samples during the three year monitoring period, from the plant discharge water heading out to Lake Michigan. Coincidently, the four samples with elevated tritium levels were collected at times when the plant was conducting batch releases of low level radioactive liquid waste water. All of these elevated levels are within allowable limits but definitely much higher than the other surface water tritium levels.[1] Details of the 2005-2007 surface water monitoring results for the four plants and comparisons to their respective preoperational baseline data are discussed below. Figures 23-40 at the end of this section show gross beta and tritium results for the nine sampling stations for 2005-2007, and a tabular presentation of the results is provided in Appendix C.

[1] NRC's tritium limit on water effluent is 1 x 10^6 pCi/l.

Big Rock Point

Aquatic monitoring for Big Rock Point during 2005-2007 consisted of the one sampling station at the reactor site. Monthly grab samples of surface water are collected and analyzed in the same manner as they were during the baseline assessment period. The results for the period are summarized in Table 18. Sampling was discontinued in 2006 following completion of decommissioning.

The gross beta arithmetic mean of 2.2 pCi/l for the 2005-2007 period was much lower than the 3.8 pCi/l average measured during the 1972-1973 baseline assessment period. The less than 100 pCi/l tritium average for the 2005-2007 period, is also much less than the 400 pCi/l average tritium level measured during 1972-1973. None of the 12 samples showed any significant gamma activity above MDA levels.

Table 18
BIG ROCK POINT SURFACE WATER RESULTS 2005-2007

	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site		
Number of Samples	12	12
Highest Result	4	Less than 100
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	2.2	Less than 100
Geometric Mean	1.9	Less than 100

Palisades

Palisades Plant aquatic monitoring during 2005-2007 consisted of one surface water sampling station at the reactor site. Monthly grab samples were collected from the reactor discharge and analyzed in the same manner as they were during the baseline assessment period. The results for the three-year period are summarized in Table 19. The Palisades reactor site surface water result gross beta average of 1.7 pCi/l for the three-year period is less than the baseline assessment period average of 4.0 pCi/l and is very comparable to the average levels measured in recent years. The tritium average of 3384 pCi/l is considerably greater that the 300 pCi/l average measured during the baseline assessment years, but when the four high results are excluded from the average calculation, a result of less than 100 pCi/l is obtained which is very consistent with previous years. None of the 35 samples showed any significant gamma activity above MDA levels.

Table 19
PALISADES SURFACE WATER RESULTS 2005-2007

	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site		
Number of Samples	35	35
Highest Result	3	72000
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	1.7	3384
Geometric Mean	1.4	100

D. C. Cook

Aquatic monitoring for D. C. Cook during 2005-2007 consisted of two surface water sampling stations at the reactor site, one for each reactor unit. Monthly grab samples were collected from the reactor discharge holding tank for each unit and analyzed in the same manner as they were during the baseline assessment period. The results for the three-year period are summarized in Table 20. Surface water gross beta averages for both reactor units during the three-year period were less than the preoperational baseline assessment period average of 4.2 pCi/l. Tritium averages for both units were also less than the baseline average of 300 pCi/l during 2005-2007 monitoring period. None of the 61 total surface water samples collected at the Cook Plant during 2002-2004 indicated any significant gamma activity above minimum detectable levels.

Table 20
D. C. COOK SURFACE WATER RESULTS 2005-2007

	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site – Unit 1		
Number of Samples	30	30
Highest Result	3	400
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	1.5	Less than 100
Geometric Mean	1.3	Less than 100
Reactor Site – Unit 2		
Number of Samples	31	31
Highest Result	3	300
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	1.6	Less than 100
Geometric Mean	1.4	Less than 100

Fermi 2

Fermi 2 aquatic monitoring during 2005-2007 consisted of monthly samples from five surface water sampling sites. A monthly grab collected from Lake Erie directly in front of the reactor site by MREMP staff and four daily composited samples collected monthly by Fermi 2 Plant staff. All monthly samples are analyzed in the same manner as they were during the baseline assessment period, and the results for the 2005-2007 monitoring period are summarized in Table 21.

During the 2005-2007 monitoring period, surface water gross beta averages for the Fermi 2 Plant area were all lower than the preoperational baseline assessment period average of 3.6 pCi/l. Tritium averages during the 2005-2007 monitoring period were slightly lower than the baseline assessment period for all five monitoring sites.

Table 21 **FERMI 2 SURFACE WATER RESULTS 2005-2007**		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site		
Number of Samples	32	32
Highest Result	6	200
Lowest Result	1	Less than 100
Arithmetic Mean	2.6	Less than 100
Geometric Mean	2.4	Less than 100
Monroe Intake Site		
Number of Samples	35	35
Highest Result	4	400
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	2.2	Less than 100
Geometric Mean	2.0	Less than 100
Trenton Channel Site		
Number of Samples	35	35
Highest Result	3	300
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	1.7	Less than 100
Geometric Mean	1.6	Less than 100
Allen Park Intake Site		
Number of Samples	35	35
Highest Result	3	200
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	1.4	Less than 100
Geometric Mean	1.2	Less than 100
Fermi 2 Intake Site		
Number of Samples	35	35
Highest Result	3	200
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	2.1	Less than 100
Geometric Mean	2.0	Less than 100

Figure 23

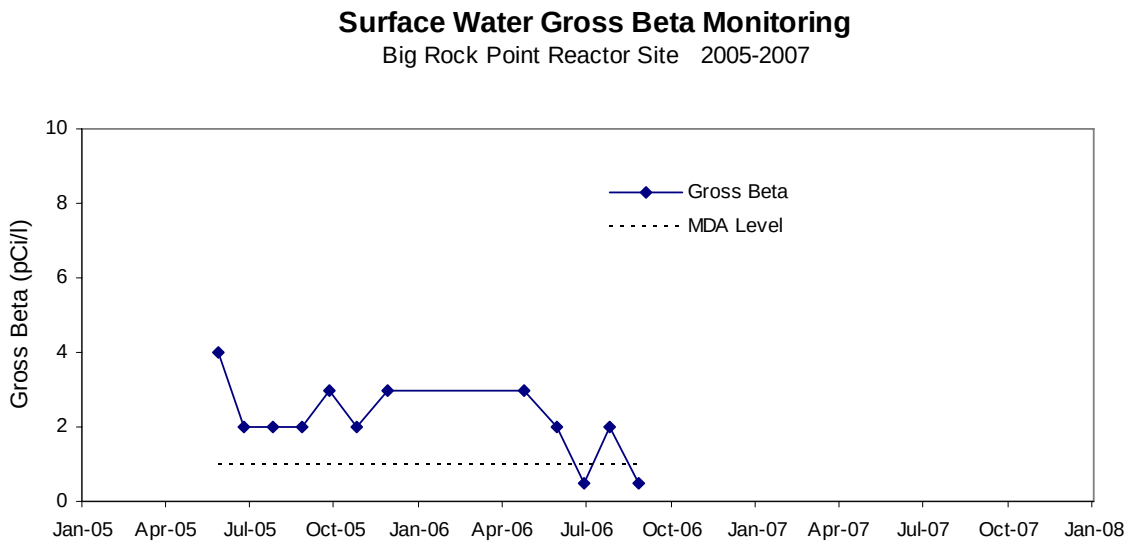
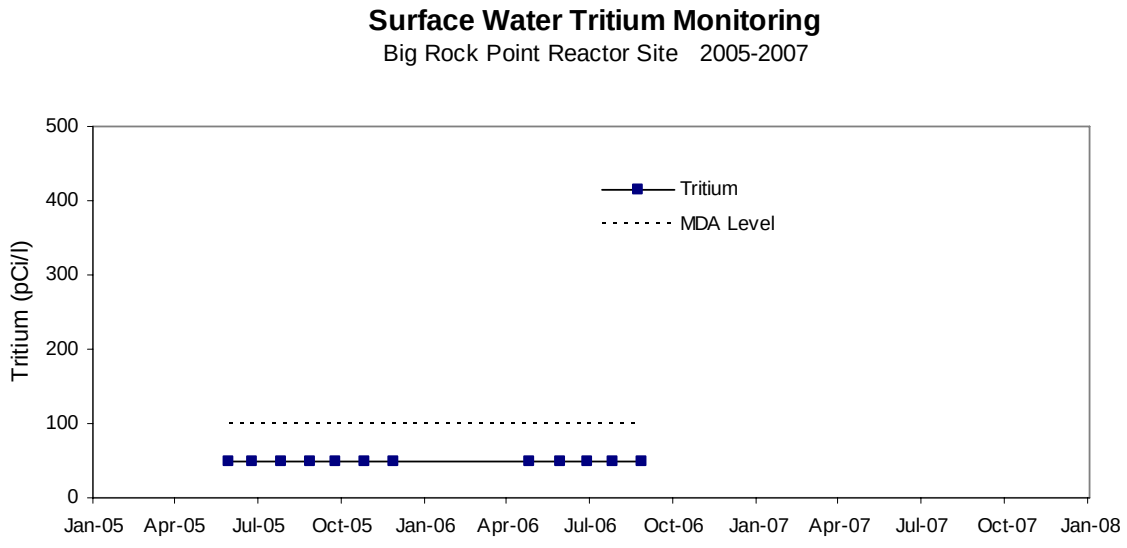


Figure 24



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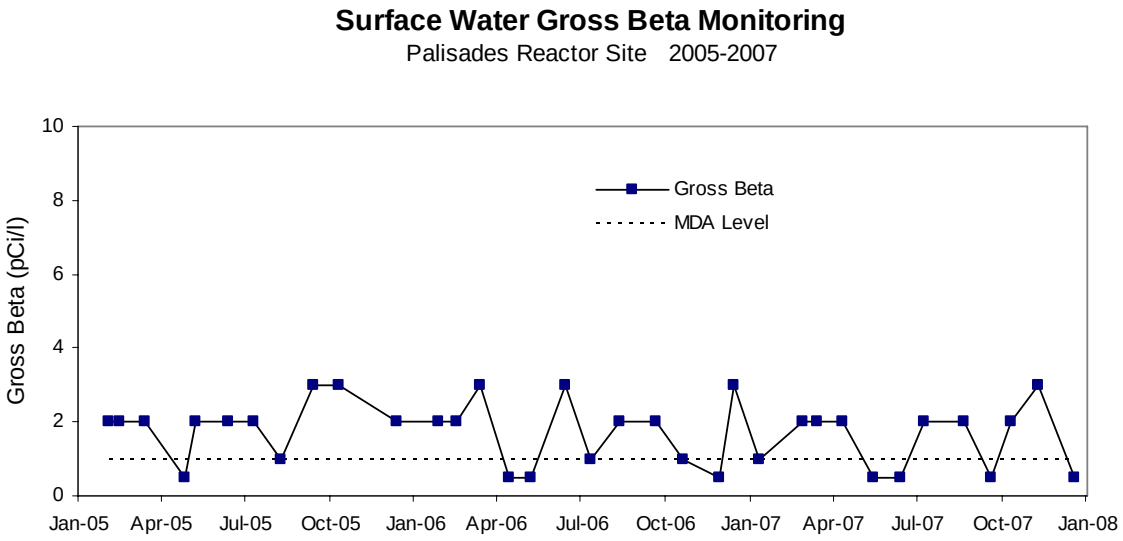

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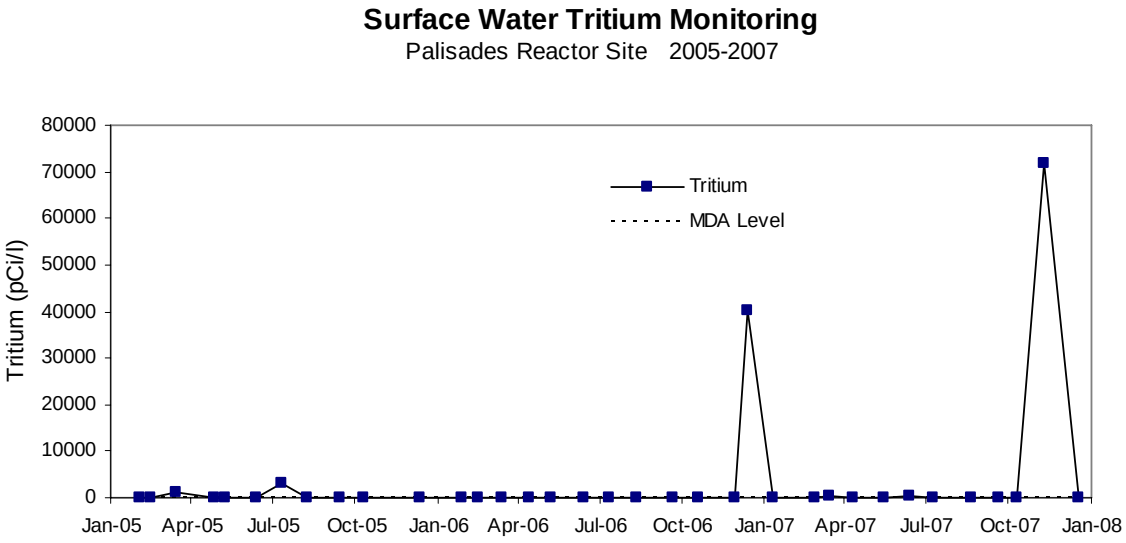

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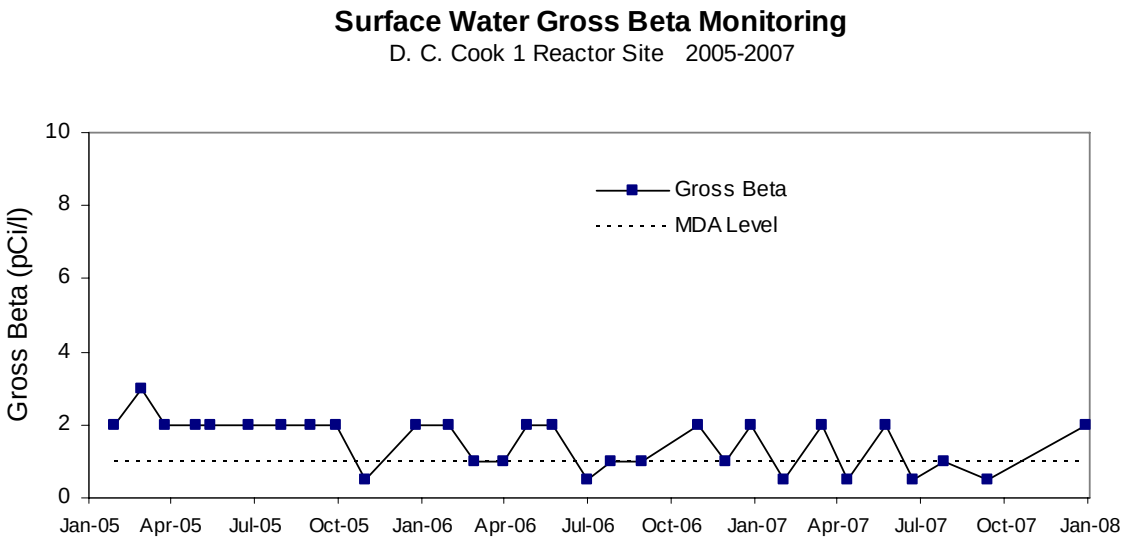

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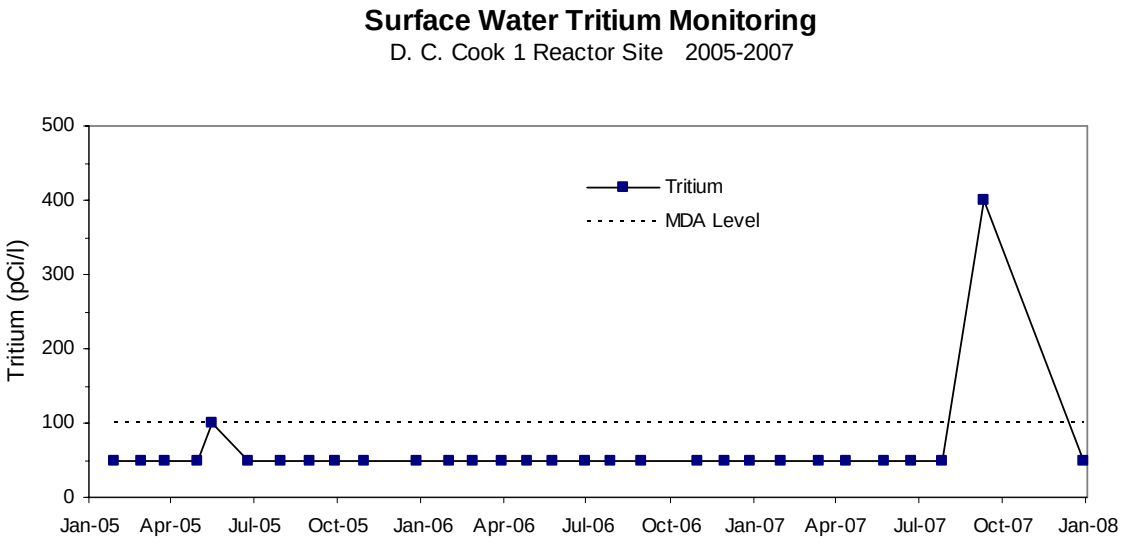

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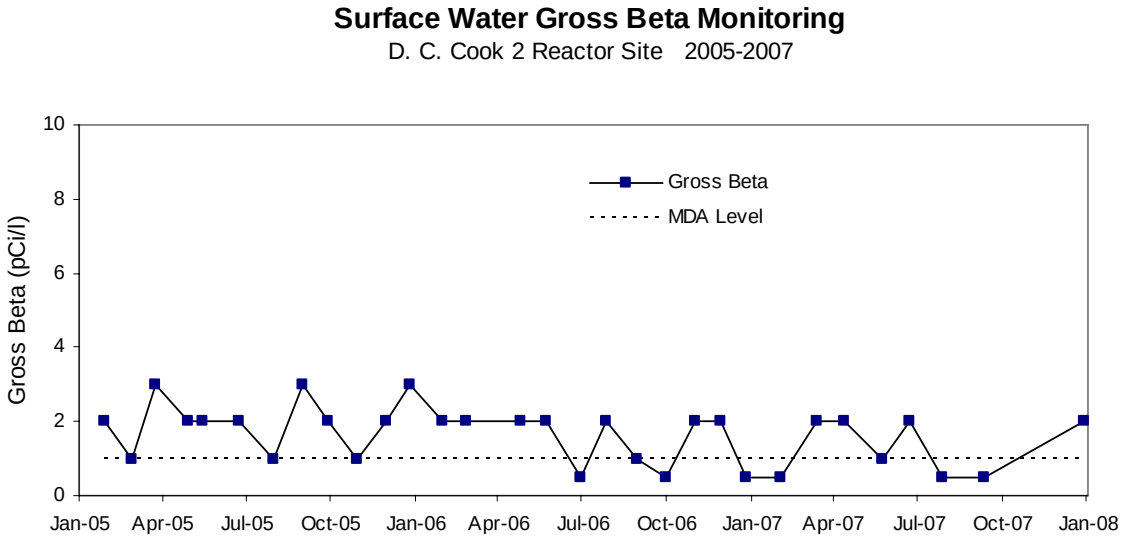

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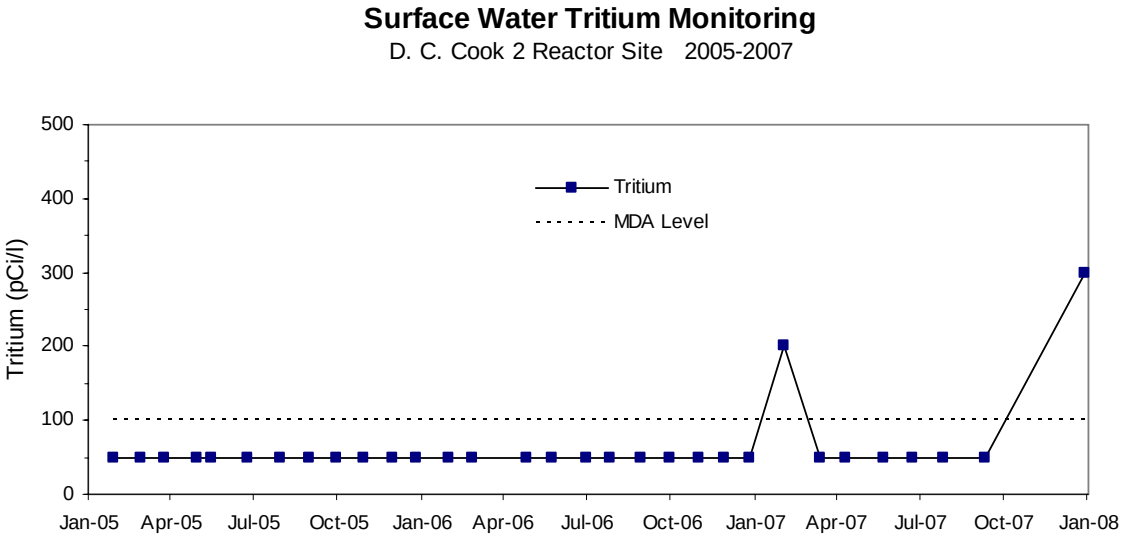


Figure 31

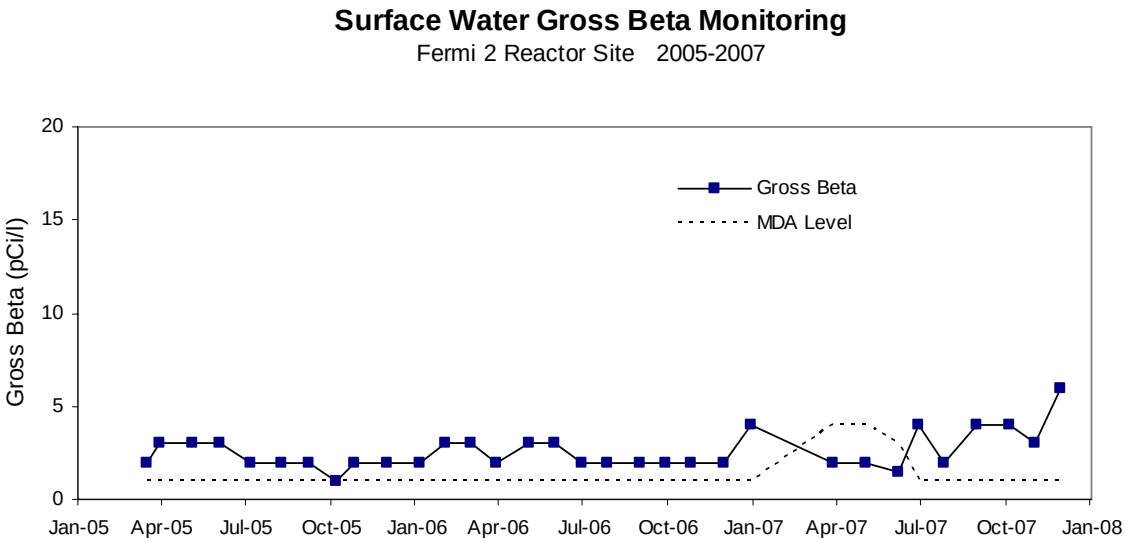


Figure 32

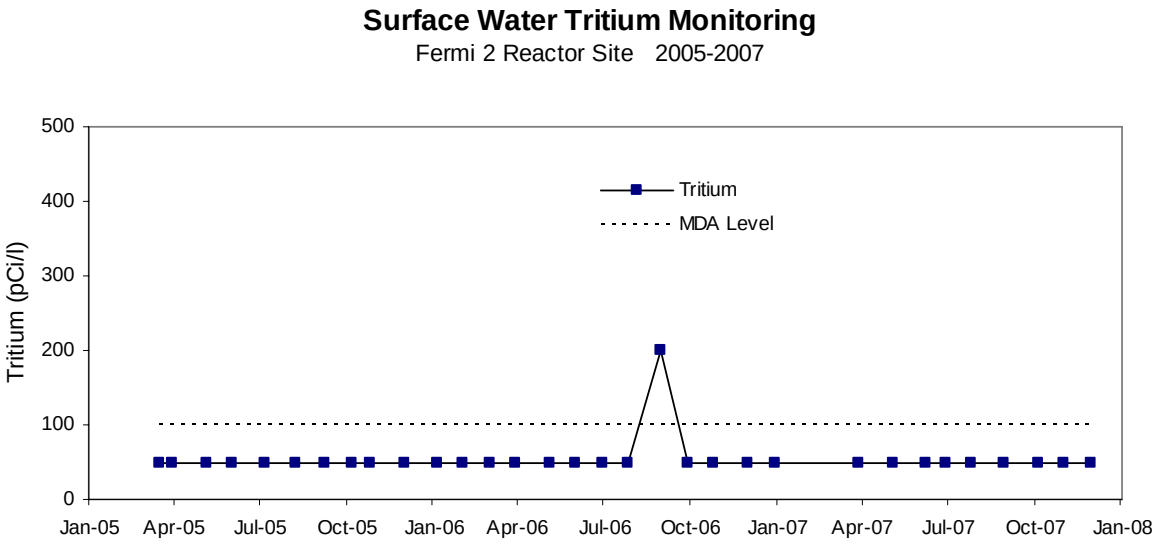


Figure 33

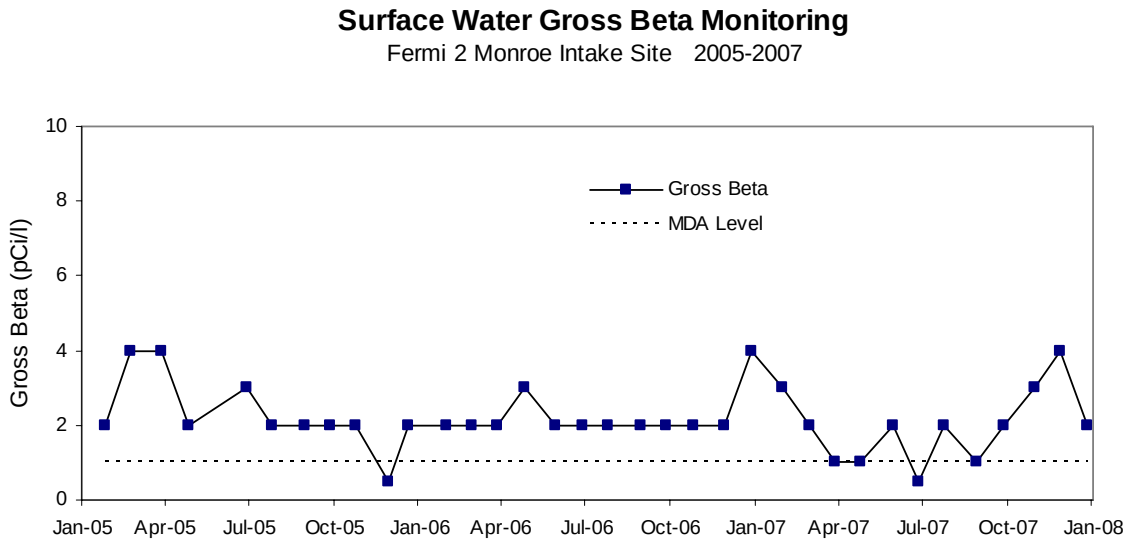


Figure 34

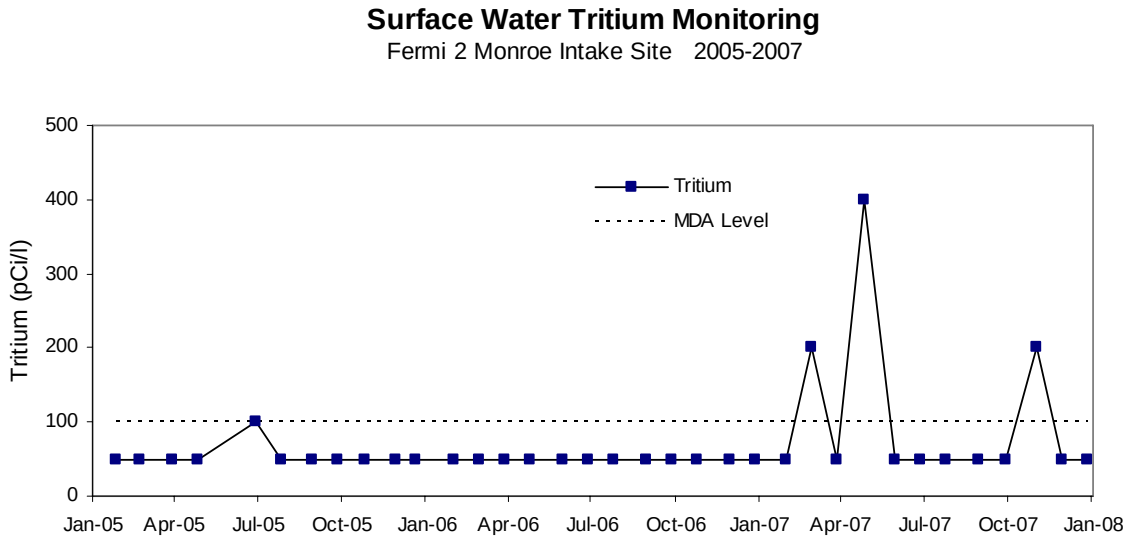


Figure 35

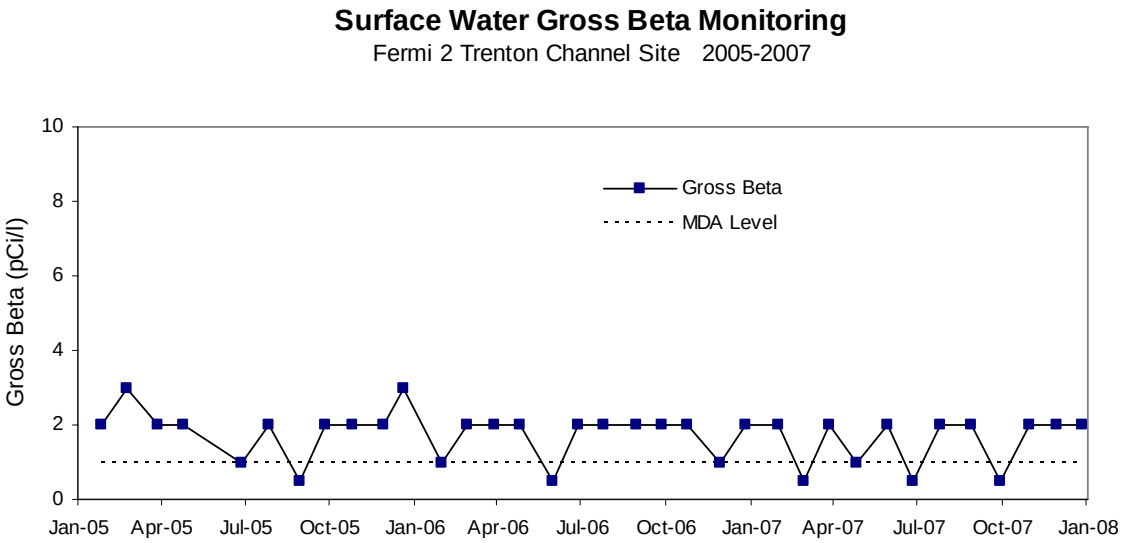


Figure 36

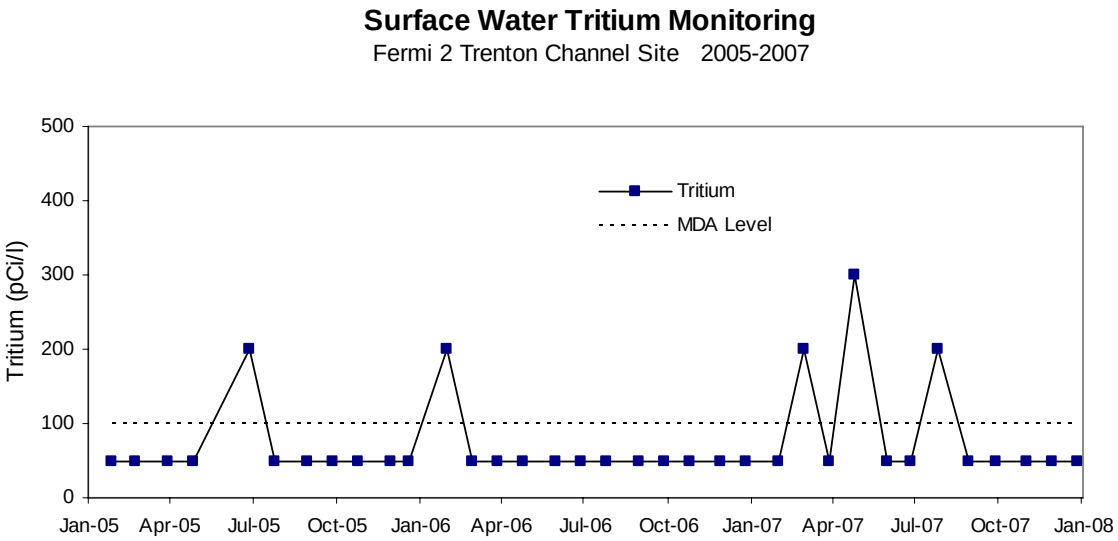


Figure 37

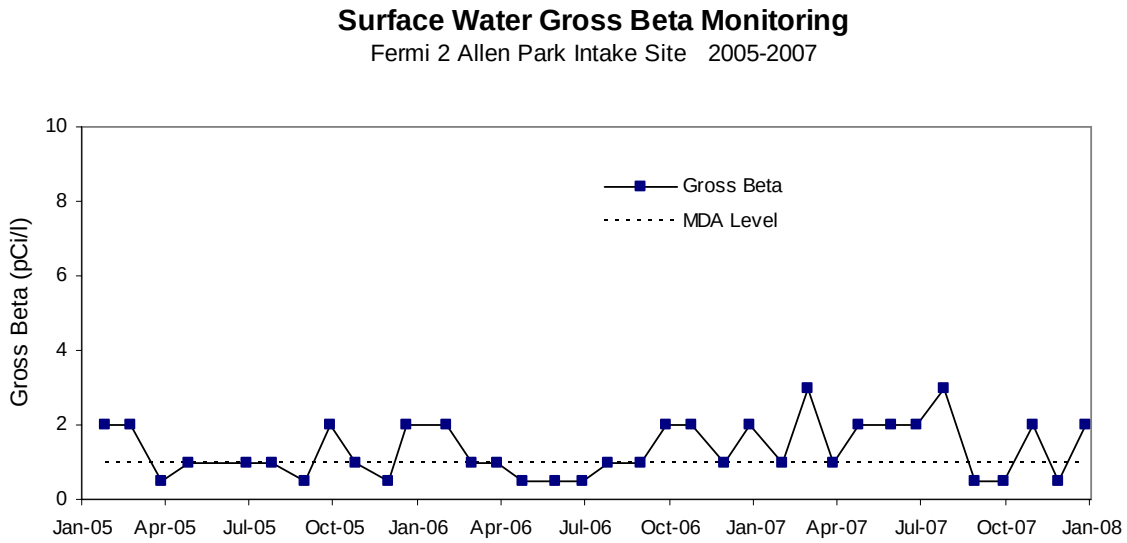


Figure 38

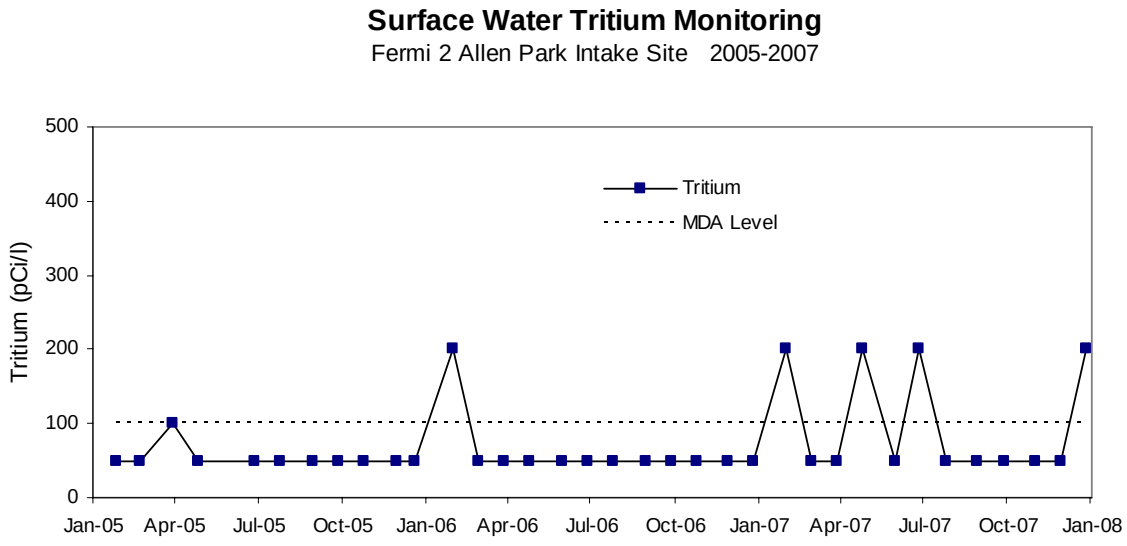


Figure 39

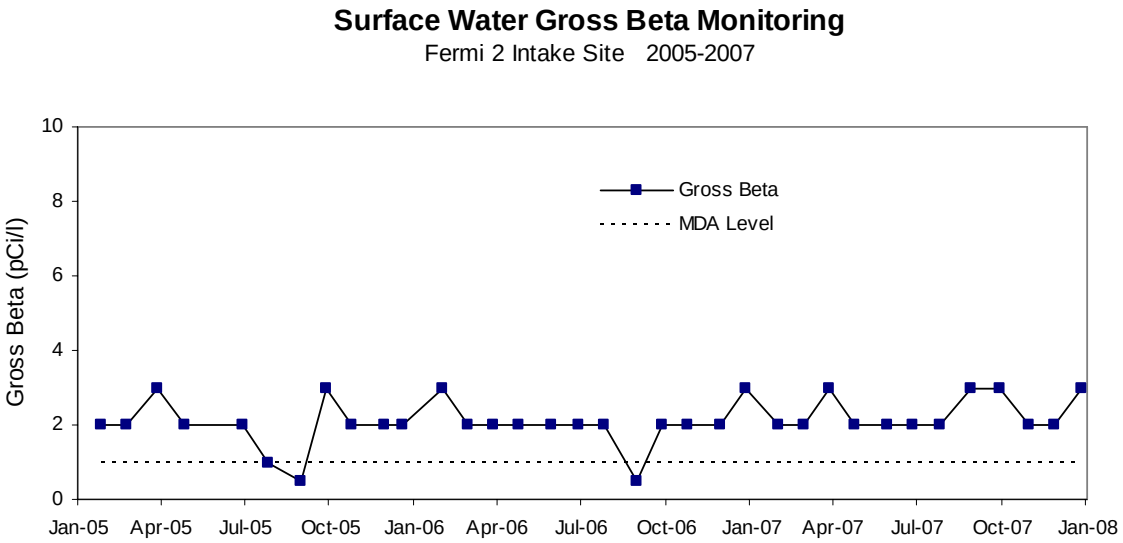
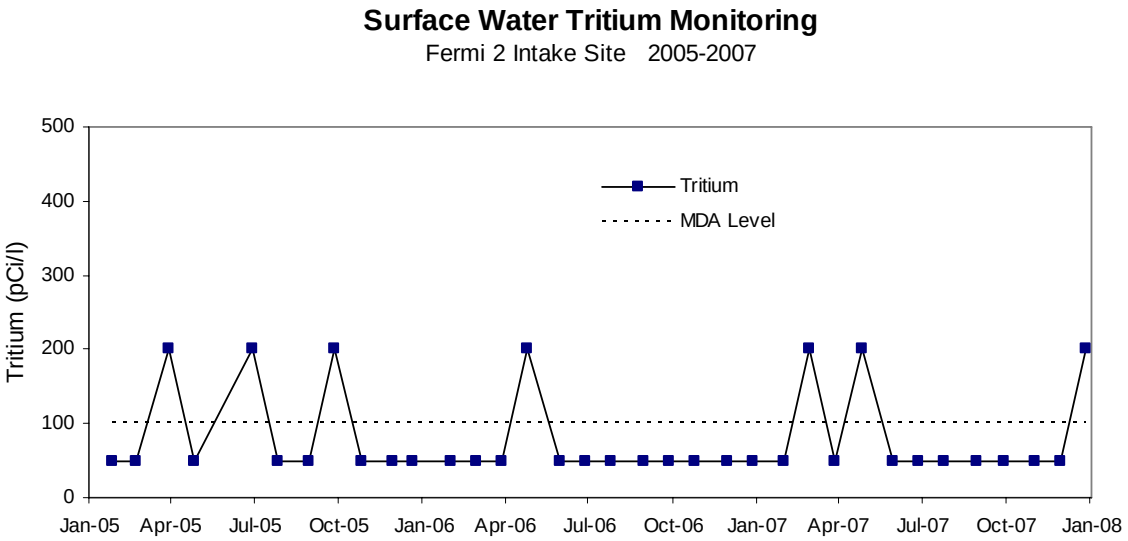


Figure 40



Direct Radiation Monitoring

Sampling Network

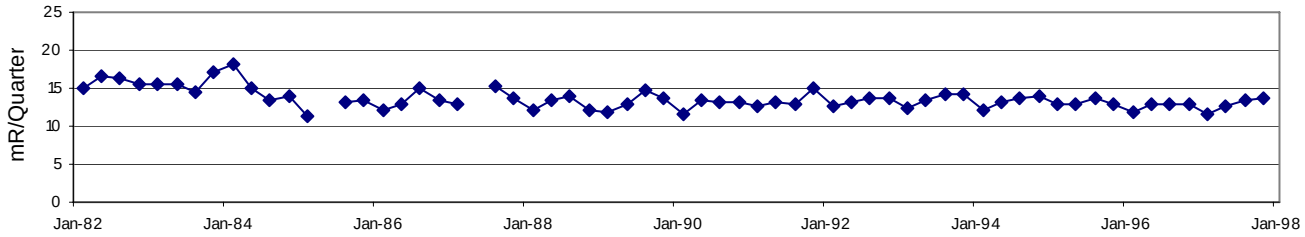
The direct radiation monitoring network consists of 12 to 16 monitoring sites for the four power plant areas and a background reference site in Lansing. The network thermoluminescent dosimeters (TLD) are exchanged and analyzed each calendar quarter by MDEQ staff. This direct radiation monitoring network replaces the NRC network which was discontinued in 1997. Direct radiation monitoring results are reported in units of milliroentgens (mR) per quarter or, equivalently, mR per 90 days.

Historical Direct Radiation Monitoring Trends

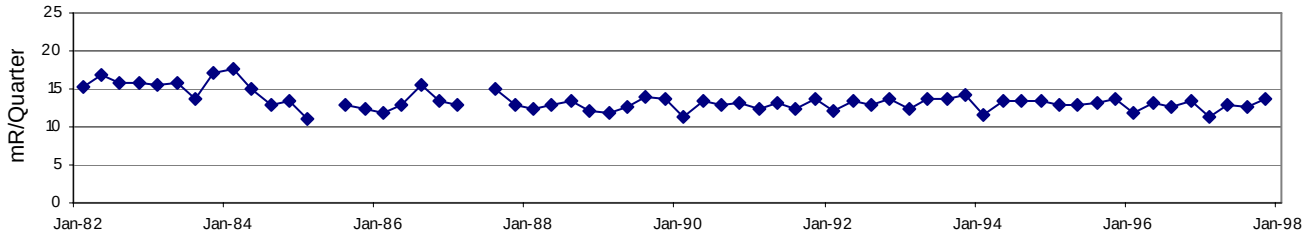
The NRC quarterly direct radiation monitoring program was initiated in the early 1980s around Michigan's four nuclear plant sites and was in operation through the end of 1997. A detailed discussion of historical direct radiation results and trends for the NRC network of monitoring sites was presented in the *MREMP Report 1958-1996*. These detailed discussions are not repeated in this report, but the historical plots of quarterly direct radiation results are shown in Figures 41-44. Since the MDEQ network of monitoring sites uses only some of the locations used in the NRC network, the 2005-2007 monitoring results are not included in these historical plots.

Figure 41

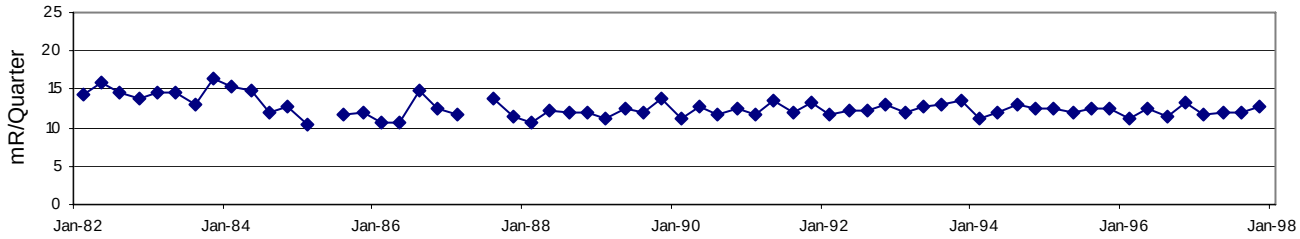
Direct Radiation Monitoring
Big Rock Point Plant (0-2 Miles)



Direct Radiation Monitoring
Big Rock Point Plant (2-5 Miles)



Direct Radiation Monitoring
Big Rock Point Plant (>5 Miles)



Direct Radiation Monitoring
Big Rock Point Plant (Upw ind Control)

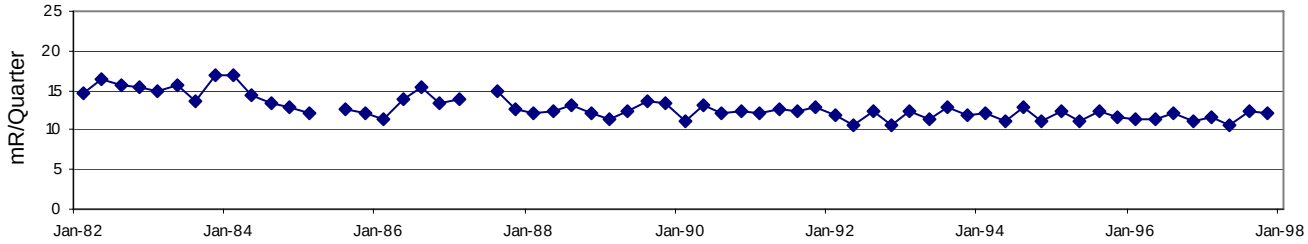
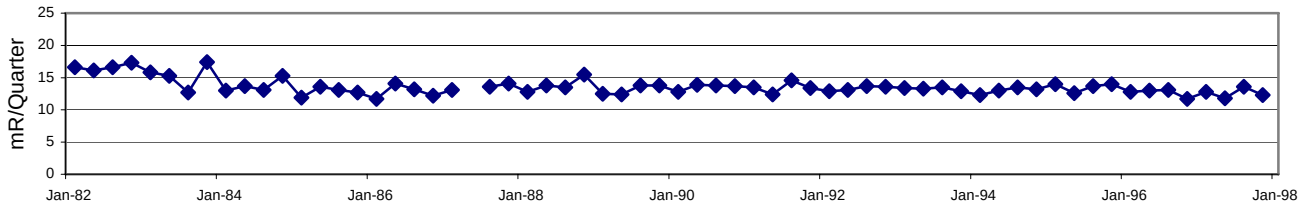
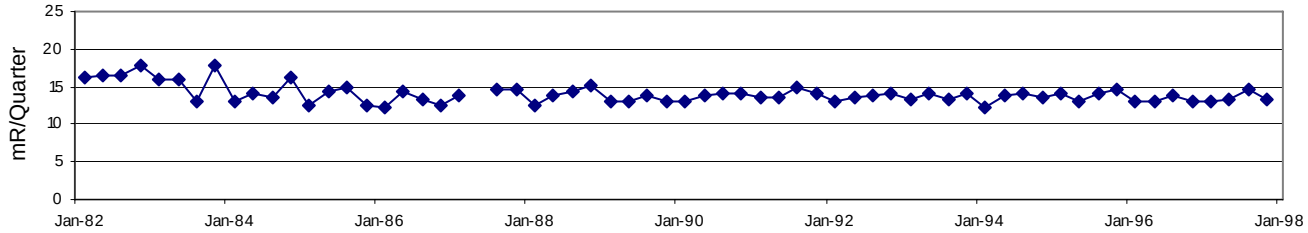


Figure 42

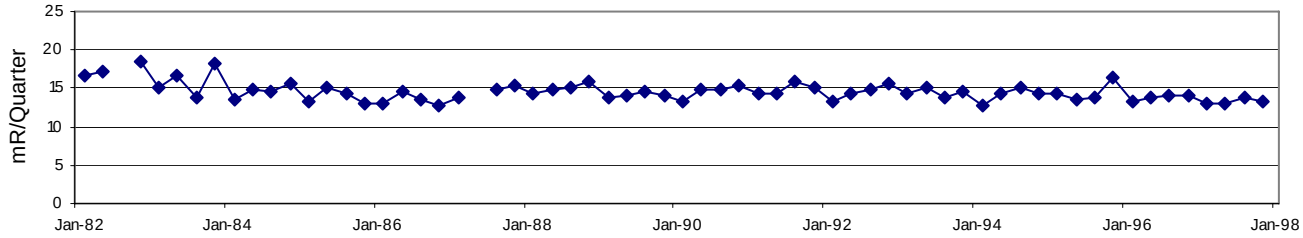
Direct Radiation Monitoring
Palisades Plant (0-2 Miles)



Direct Radiation Monitoring
Palisades Plant (2-5 Miles)



Direct Radiation Monitoring
Palisades Plant (>5 Miles)



Direct Radiation Monitoring
Palisades Plant (Upwind Control)

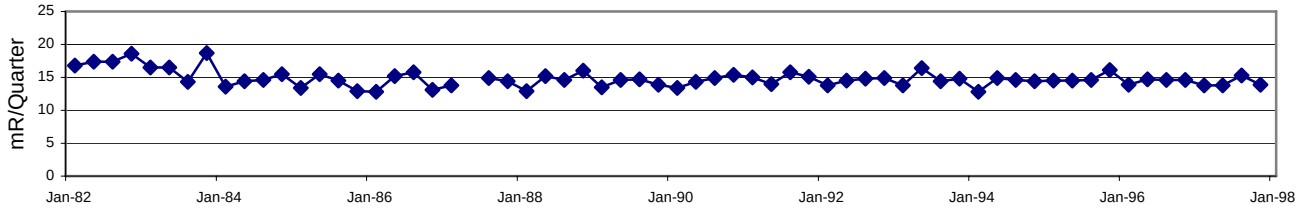
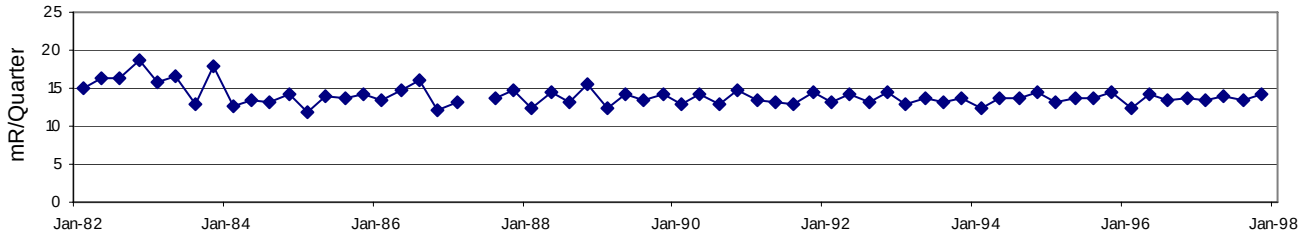
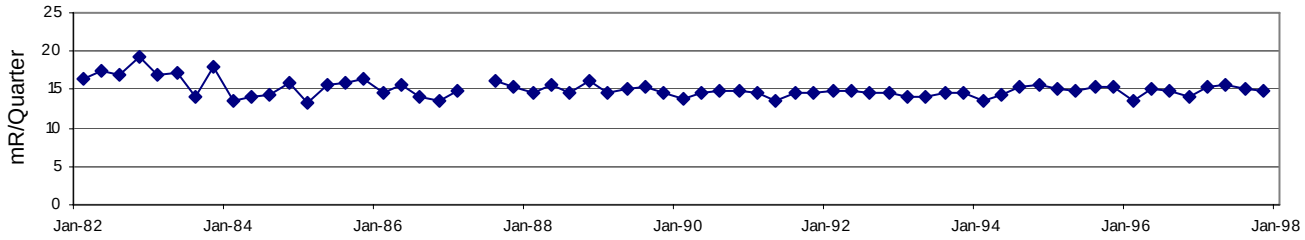


Figure 43

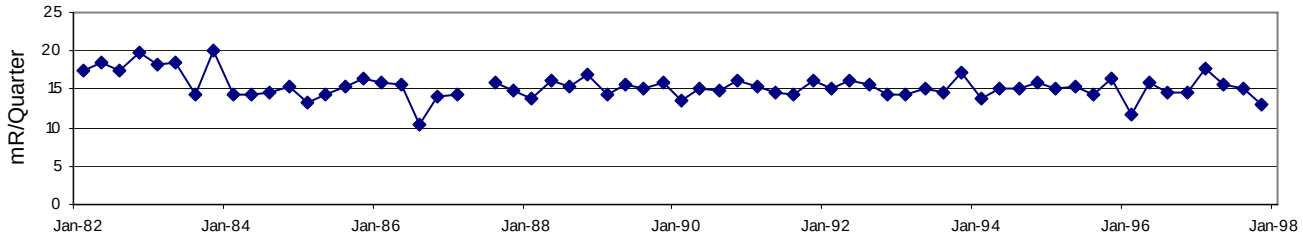
Direct Radiation Monitoring
D. C. Cook Plant (0-2 Miles)



Direct Radiation Monitoring
D. C. Cook Plant (2-5 Miles)



Direct Radiation Monitoring
D. C. Cook Plant (>5 Miles)



Direct Radiation Monitoring
D. C. Cook Plant (Upw ind Control)

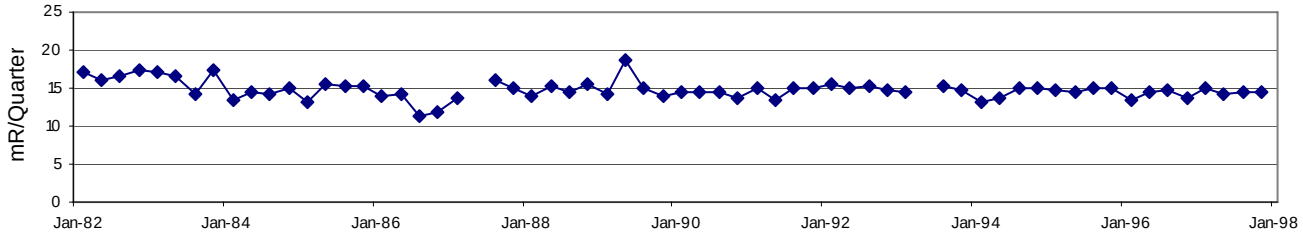
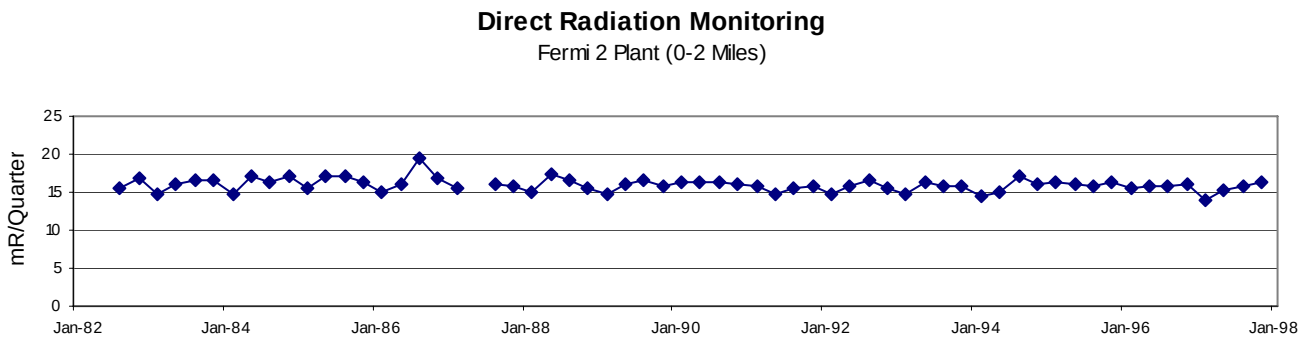
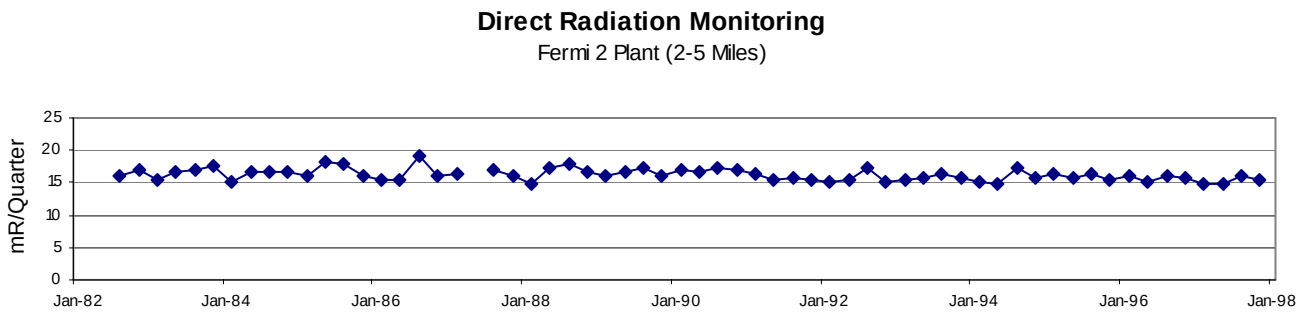
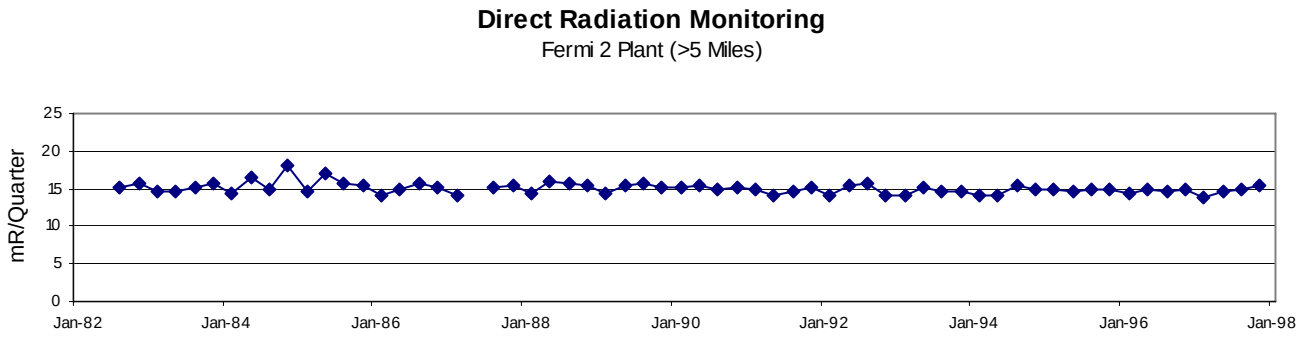
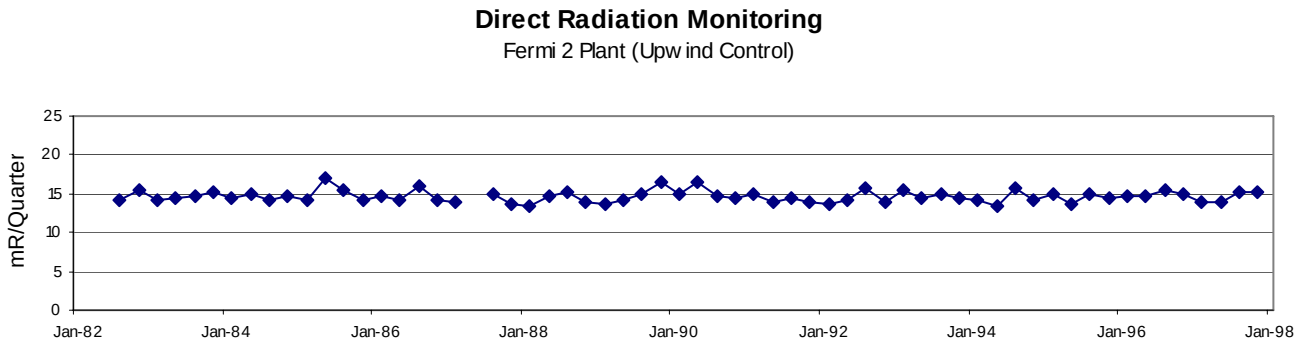


Figure 44


Direct Radiation Monitoring
Fermi 2 Plant (0-2 Miles)
mR/Quarter
25
20
15
10
5
0
Jan-82
Jan-84
Jan-86
Jan-88
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98


Direct Radiation Monitoring
Fermi 2 Plant (2-5 Miles)
mR/Quarter
25
20
15
10
5
0
Jan-82
Jan-84
Jan-86
Jan-88
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98


Direct Radiation Monitoring
Fermi 2 Plant (>5 Miles)
mR/Quarter
25
20
15
10
5
0
Jan-82
Jan-84
Jan-86
Jan-88
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98


Direct Radiation Monitoring
Fermi 2 Plant (Upw ind Control)
mR/Quarter
25
20
15
10
5
0
Jan-82
Jan-84
Jan-86
Jan-88
Jan-90
Jan-92
Jan-94
Jan-96
Jan-98

Direct Radiation Monitoring 2005-2007

During June and July of 1998, a replacement network of direct radiation monitoring sites was established around the four Michigan nuclear power plants along with a background reference site in Lansing, Michigan. The new network of monitoring sites around each of the four nuclear plants is very similar to the NRC network, with a couple of changes. A new monitoring site was co-located with the MDEQ air sampler, near the reactor at each of the nuclear power plants so to have a site actually on plant property. In late 2001, monitoring commenced at the Big Rock Point Interim Spent Fuel Storage Installation (ISFSI) with dosimeters placed at the four corners of the fenced area. The monitoring network surrounding the Big Rock Point Plant was reduced from 12 off-site monitoring sites to 7, due to the progress in plant decommissioning. In 2006 the Big Rock Point network of sites surrounding the plant was discontinued, leaving only the four sites at the corners of the ISFSI for continued monitoring. Also, less monitoring sites are used in the area surrounding each of the plants and the NRC upwind control sites were eliminated. A total of 63 monitoring sites (12 for Big Rock Point and 4 for ISFSI, 15 for Palisades, 15 for D. C. Cook, 16 for Fermi 2, and 1 for Lansing) are used in the new MREMP direct radiation network. The TLDs are exchanged at the 63 sites every quarter, analyzed, and the results normalized to a standard 90 day calendar to facilitate comparison over time.

Details of the 2005-2007 direct radiation monitoring results for each of the four plants with a comparison to the Lansing background reference site results are discussed below. Figures 45-48 at the end of this section show the quarterly exposure measurement results as a function distance and Figures 49-52 show the average quarterly exposure measurement results as a function of direction for each plant. A tabular presentation of the measurements results for 2005-2007 is presented in Appendix D.

Big Rock Point

Direct radiation results during 2005-2007 monitoring period were, on the average, consistent with previous monitoring years. The average of all measurements taken at the eight plant network monitoring sites during 2005-2007 was 13.2 mR, which is considerably lower than the average of 17.7 mR for the Lansing background reference site. Averaging the quarterly monitoring measurements for the ISFSI resulted in a three-year average of 12.5 mR, which is somewhat less than the plant monitoring network three-year average. The 2005-2007 average quarterly results as a function of distance and compass direction from the plant and the ISFSI results are presented in Table 22. Note that the average quarterly result of 15.7 mR for the reactor site (0 miles) is considerably higher than other average results for the Big Rock Point environs. This is due to the dosimeter being located near the radiological waste processing building, where decommissioning and radioactive waste shipment loading activities are taking place. Other than the higher result just mentioned, no unusual trends are exhibited as a function of distance or direction from the plant as shown in Figures 45 and 49.

Table 22 **BIG ROCK POINT DIRECT RADIATION RESULTS JAN 2005-SEPT 2006**	
Distance From the Plant (miles)	Average Quarterly Exposure (mR)
0	15.7
0-2	12.8
Compass Direction (22.5° Sector)	Average Quarterly Exposure (mR)
E	13.9
ESE	13.0
SE	13.4
SSE	12.5
S	13.1
SSW	12.7
SW	11.1
BIG ROCK POINT DIRECT RADIATION RESULTS 2005-2007	
Interim Spent Fuel Storage Installation Corner Direction	Average Quarterly Exposure (mR)
NW	10.9
SW	12.9
SE	14.2
NE	11.9

Palisades

The average of all direct radiation measurements taken during 2005-2007 at the 15 monitoring sites in the Palisades Plant environs was 14.5 mR, lower than the average of 17.7 mR for the Lansing background reference site. Average quarterly direct radiation levels as a function of distance and compass direction from the plant are presented in Table 23. From the information in this table and graphically shown in Figures 46 and 50, no unusual trends are exhibited as a function of either distance or compass direction from the plant.

Table 23 **PALISADES DIRECT RADIATION RESULTS 2005-2007**	
Distance From the Reactor (miles)	Average Quarterly Exposure (mR)
0	15.5
0-2	14.0
2-5	14.6
>5	15.4
Compass Direction (22.5° Sector)	Average Quarterly Exposure (mR)
NNE	15.2
NE	17.0
ENE	14.2
E	15.1
ESE	14.3
SE	14.4
SSE	14.5
S	13.7
SSW	13.0

D. C. Cook

The average of all the quarterly direct radiation measurements taken during 2005-2007 at the 15 D. C. Cook monitoring sites was 14.3 mR and considerably less than the 17.7 mR average for the Lansing background reference monitoring site. Average quarterly direct radiation levels as a function of distance and compass direction from the plant are presented in Table 24. From the information in this table and graphically shown in Figures 47 and 51, no unusual trends are exhibited as a function of either distance or compass direction from the plant.

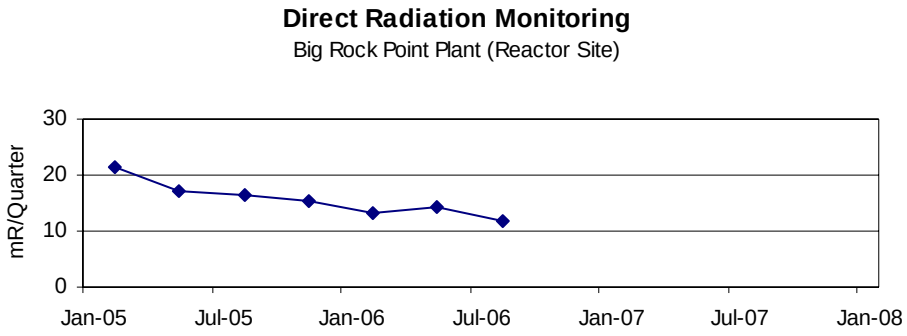
Table 24 **D. C. COOK DIRECT RADIATION RESULTS 2005-2007**	
Distance From the Reactor (miles)	Average Quarterly Exposure (mR)
0	15.6
0-2	13.8
2-5	15.1
>5	14.5
Compass Direction (22.5° Sector)	Average Quarterly Exposure (mR)
NNE	13.8
NE	12.8
ENE	13.5
E	13.8
ESE	15.6
SE	14.9
SSE	15.5
S	14.2
SSW	13.5

Fermi 2

The Fermi 2 Plant NRC quarterly TLD results for the 2005-2007 period were, on the average, the highest of the four plants and consistent with past monitoring. The average of all measurements taken at the 16 Fermi 2 monitoring sites is 16.5 mR, which is slightly less than the 17.7 mR average for the Lansing station. Average quarterly direct radiation levels as a function of distance and compass direction from the plant are presented in Table 25. From the information in this table and graphically shown in Figures 48 and 52, no unusual trends are exhibited as a function of either distance or compass direction from the plant.

Table 25 **FERMI 2 DIRECT RADIATION RESULTS 2005-2007**	
Distance From the Reactor (miles)	Average Quarterly Exposure (mR)
0	18.7
0-2	16.4
2-5	17.3
>5	15.7
Compass Direction (22.5° Sector)	Average Quarterly Exposure (mR)
N	16.0
NNE	18.8
NE	
S	15.7
SSW	14.5
SW	16.2
WSW	15.6
W	17.0
WNW	16.6
NW	15.6
NNW	17.4

Figure 45


Direct Radiation Monitoring
Big Rock Point Plant (Reactor Site)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08

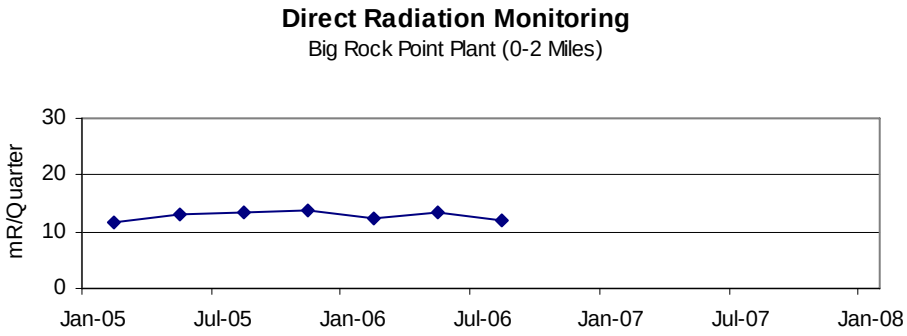
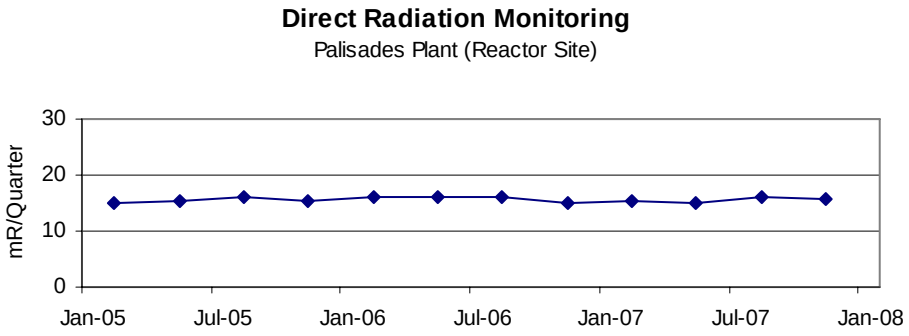
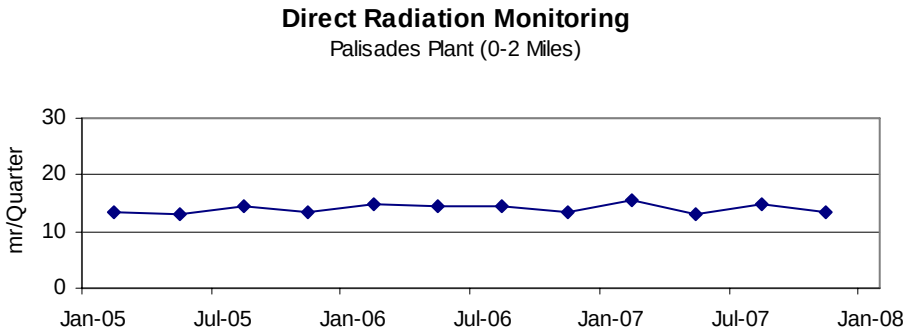
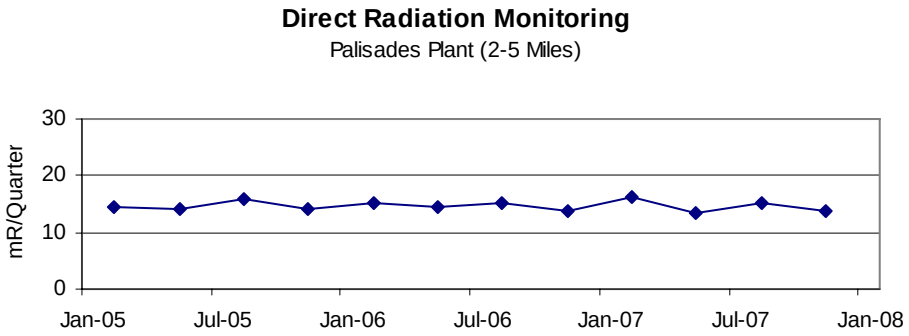

Direct Radiation Monitoring
Big Rock Point Plant (0-2 Miles)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08

Figure 46


Direct Radiation Monitoring
Palisades Plant (Reactor Site)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08


Direct Radiation Monitoring
Palisades Plant (0-2 Miles)
mr/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08


Direct Radiation Monitoring
Palisades Plant (2-5 Miles)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08

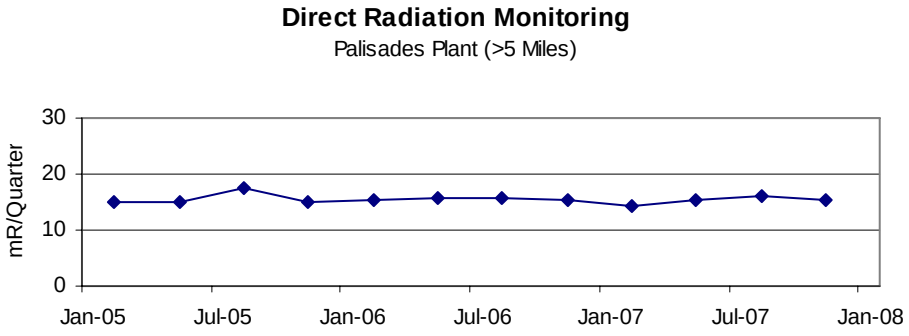
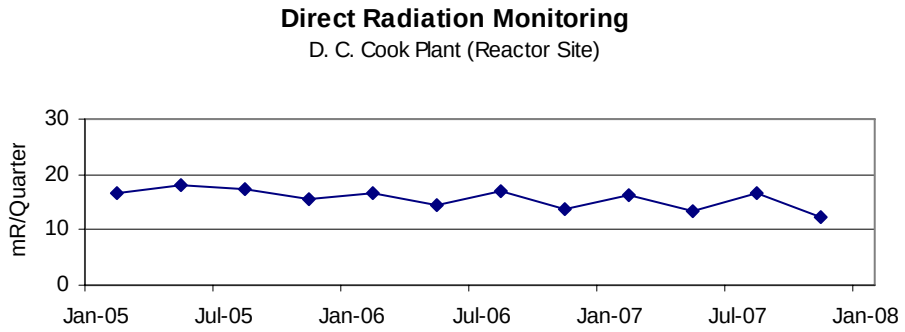
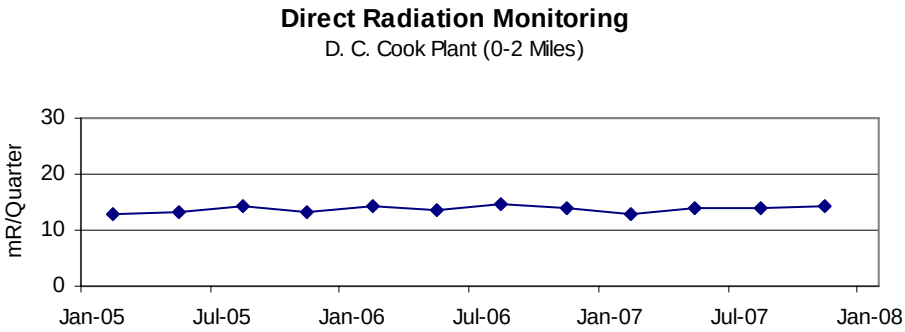
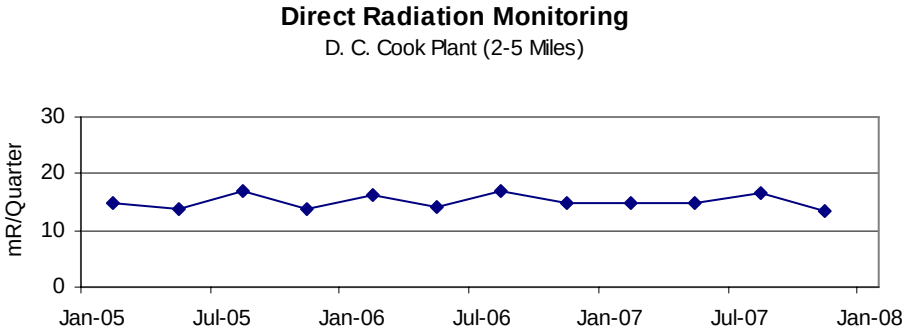

Direct Radiation Monitoring
Palisades Plant (>5 Miles)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08

Figure 47


Direct Radiation Monitoring
D. C. Cook Plant (Reactor Site)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08


Direct Radiation Monitoring
D. C. Cook Plant (0-2 Miles)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08


Direct Radiation Monitoring
D. C. Cook Plant (2-5 Miles)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08

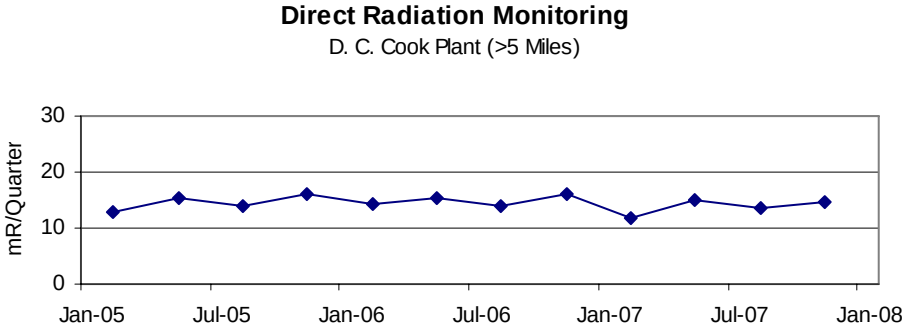
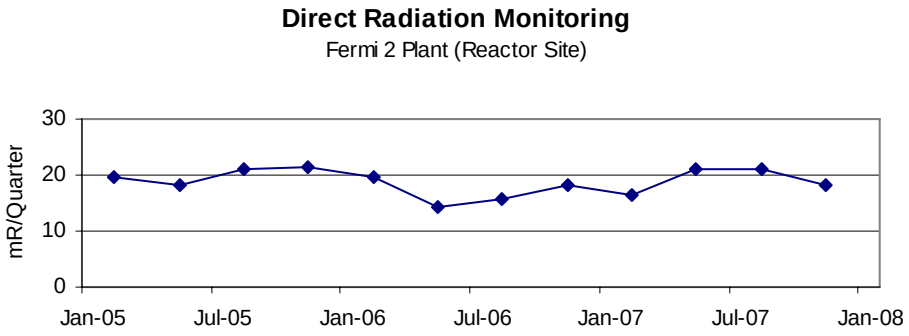
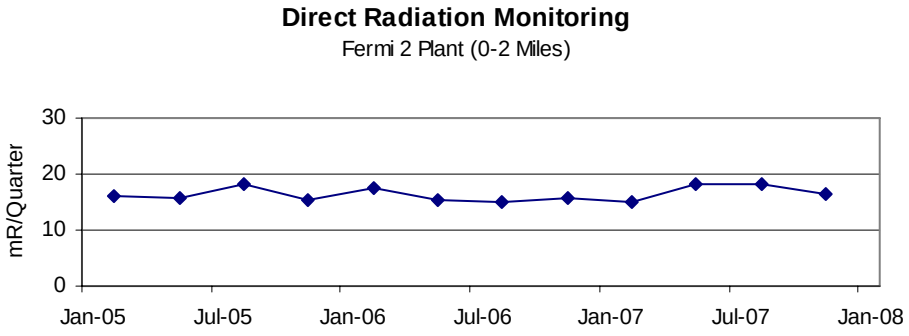
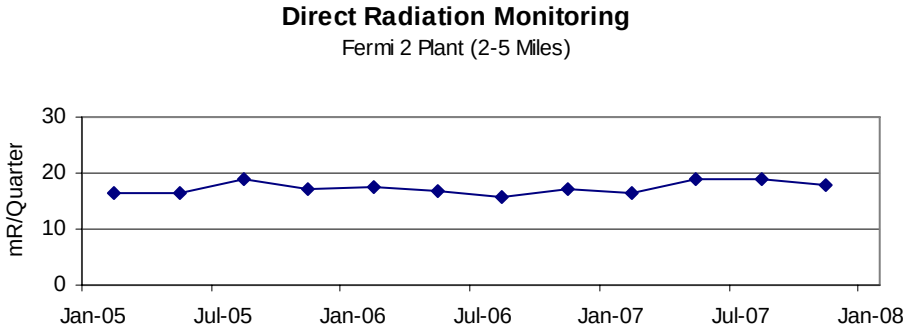

Direct Radiation Monitoring
D. C. Cook Plant (>5 Miles)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08

Figure 48


Direct Radiation Monitoring
Fermi 2 Plant (Reactor Site)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08


Direct Radiation Monitoring
Fermi 2 Plant (0-2 Miles)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08


Direct Radiation Monitoring
Fermi 2 Plant (2-5 Miles)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08

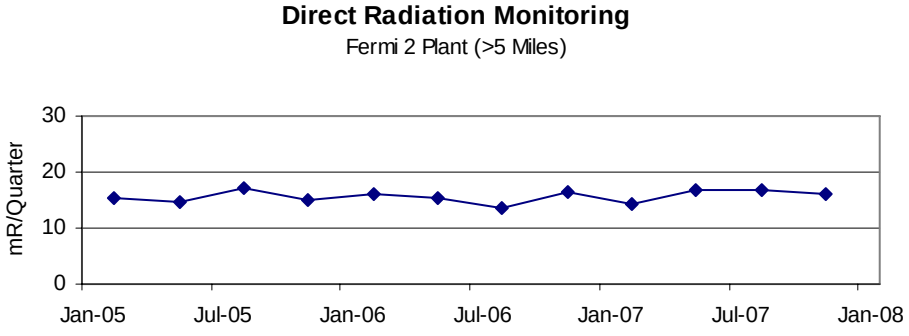

Direct Radiation Monitoring
Fermi 2 Plant (>5 Miles)
mR/Quarter
30
20
10
0
Jan-05
Jul-05
Jan-06
Jul-06
Jan-07
Jul-07
Jan-08

Figure 49

Direct Radiation Monitoring
Big Rock Point Plant 2005-2007

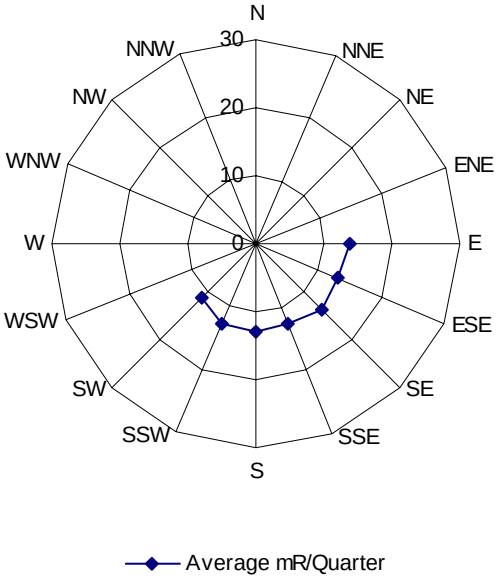


Figure 50

Direct Radiation Monitoring
Palisades Plant 2005-2007

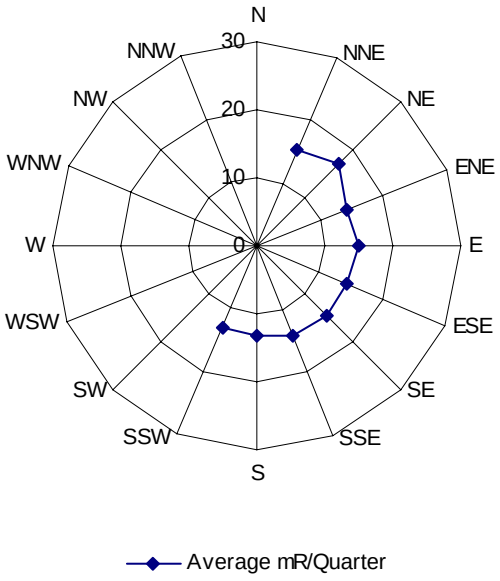


Figure 51

Direct Radiation Monitoring
D. C. Cook Plant 2005-2007

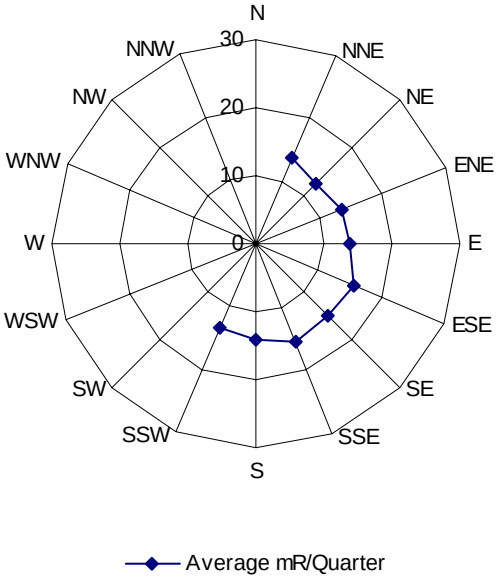
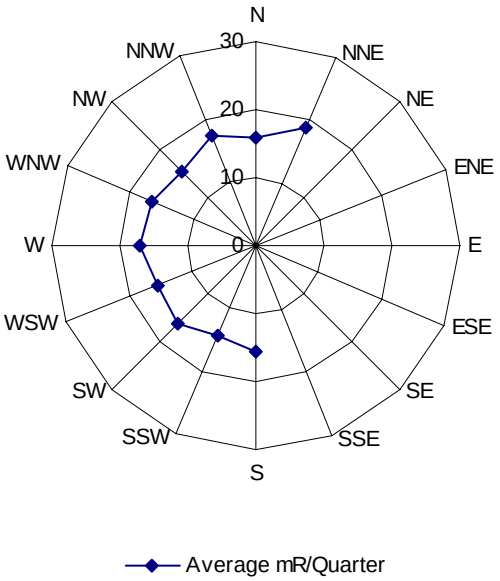


Figure 52

Direct Radiation Monitoring
Fermi 2 Plant 2005-2007



Summary and Conclusion

Recognizing that the peaceful use of nuclear energy to produce electricity could have an adverse impact on public health and the environment, the state of Michigan established the Michigan Radiation Environmental Monitoring Program (MREMP) in 1958. The purpose of the program is to monitor the environs near the nuclear power plant sites to assure that Michigan's citizens and its environment are not adversely impacted. Environmental samples in the form of air particulates, air vapors, milk, surface water, and direct radiation are taken from various sites in Michigan and analyzed to determine if any radiological effects due to nuclear power plants can be detected.

Geographic variations in atmospheric air particulate monitoring are evident during the 2005-2007 monitoring period, but no air particulate sample analytical results were found to be indicative of nuclear power plant operations, with levels reflecting only the normal fluctuations in natural background. Atmospheric air vapor results for the 2005-2007 period were all less than the minimum detectable activity (MDA), also indicating no detectable influence from nuclear power plant operations.

Terrestrial milk sample results were consistently below MDA levels during the three-year monitoring period. Long-lived radionuclides due to atmospheric fallout from nuclear device testing prior to 1981 were still present in a small percentage of milk samples, but the detectable levels found during the 2005-2007 period were only slightly above analytical MDA levels. None of the 2005-2007 milk results were attributable to Michigan nuclear plant operations.

The majority of aquatic monitoring surface water sample results during 2005-2007 continued the trend of exhibiting the fluctuation in natural background from the early 1980s to the present. There were four samples from the Palisades Plant with much higher than usual amounts of tritium activity. These samples were collected at times when the plant was conducting liquid batch release discharges, which were within the NRC's allowable limits. This is a good example of the surface water monitoring system finding elevated levels of radioactive effluent from plant operations even though the effluent levels were within regulatory limits.

Direct radiation monitoring results have detected the impact of nuclear plant operations but only at the plant site very near to the reactor. Off-site direct radiation monitoring has historically shown levels reflecting the natural background of cosmic and terrestrial radiation. Direct radiation levels during 2005-2007 follow the normal natural background trend with no pattern that would indicate an adverse impact due to nuclear power plant operations.

In conclusion, the results of the MREMP indicate that no public health or environmental radiological impact was detected in the off-site environs of Michigan's nuclear power plants during the 2005-2007 period that could be attributed to the operation of nuclear power reactors.

APPENDIX A

Atmospheric Monitoring
Big Rock Point
2005
Reactor Site Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/02/05	NS	NS
01/09/05	0.021 ± 0.002	LT 0.05
01/16/05	0.025 ± 0.002	LT 0.05
01/23/05	0.022 ± 0.002	LT 0.05
01/30/05	0.016 ± 0.002	LT 0.05
02/06/05	0.020 ± 0.002	LT 0.05
02/13/05	0.019 ± 0.002	LT 0.05
02/20/05	0.015 ± 0.002	LT 0.05
02/27/05	0.013 ± 0.002	LT 0.05
03/06/05	0.014 ± 0.002	LT 0.05
03/13/05	0.016 ± 0.002	LT 0.05
03/20/05	0.014 ± 0.002	LT 0.05
03/27/05	0.009 ± 0.002	LT 0.05
04/03/05	0.014 ± 0.002	LT 0.05
04/10/05	0.012 ± 0.002	LT 0.05
04/16/05	0.013 ± 0.002	LT 0.07
04/22/05	0.017 ± 0.002	LT 0.06
04/28/05	0.007 ± 0.002	LT 0.08
05/06/05	0.013 ± 0.002	LT 0.05
05/14/05	0.014 ± 0.002	LT 0.05
05/21/05	0.011 ± 0.002	LT 0.06
05/28/05	0.009 ± 0.002	LT 0.06
06/04/05	0.010 ± 0.002	LT 0.06
06/11/05	0.015 ± 0.002	LT 0.06
06/18/05	0.010 ± 0.001	LT 0.04
06/24/05	0.013 ± 0.002	LT 0.07

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/01/05	0.017 ± 0.002	LT 0.06
07/09/05	0.010 ± 0.002	LT 0.05
07/15/05	0.025 ± 0.003	LT 0.06
07/22/05	0.016 ± 0.002	LT 0.07
07/29/05	0.012 ± 0.002	LT 0.06
08/05/05	0.024 ± 0.002	LT 0.06
08/12/05	0.019 ± 0.002	LT 0.06
08/19/05	0.012 ± 0.002	LT 0.06
08/26/05	0.010 ± 0.002	LT 0.06
09/02/05	0.012 ± 0.002	LT 0.06
09/09/05	0.014 ± 0.002	LT 0.06
09/16/05	0.027 ± 0.002	LT 0.06
09/23/05	0.020 ± 0.002	LT 0.07
09/30/05	0.016 ± 0.002	LT 0.06
10/06/05	0.021 ± 0.002	LT 0.08
10/13/05	0.007 ± 0.002	LT 0.07
10/21/05	0.015 ± 0.002	LT 0.05
10/28/05	0.004 ± 0.001	LT 0.06
11/03/05	0.024 ± 0.003	LT 0.08
11/10/05	0.016 ± 0.002	LT 0.07
11/17/05	0.012 ± 0.002	LT 0.07
11/26/05	0.012 ± 0.002	LT 0.05
12/01/05	0.016 ± 0.002	LT 0.08
12/08/05	0.011 ± 0.002	LT 0.07
12/16/05	0.020 ± 0.002	LT 0.07
12/25/05	0.030 ± 0.002	LT 0.04
12/30/05	0.012 ± 0.002	LT 0.08

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
Big Rock Point
2005
Charlevoix Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/02/05	0.024 ± 0.002	LT 0.05
01/09/05	0.016 ± 0.002	LT 0.05
01/16/05	0.024 ± 0.002	LT 0.05
01/23/05	0.017 ± 0.002	LT 0.05
01/30/05	0.015 ± 0.002	LT 0.05
02/06/05	0.020 ± 0.002	LT 0.05
02/13/05	0.018 ± 0.002	LT 0.05
02/20/05	0.015 ± 0.002	LT 0.05
02/27/05	0.012 ± 0.002	LT 0.05
03/06/05	0.015 ± 0.002	LT 0.05
03/13/05	0.014 ± 0.002	LT 0.05
03/20/05	0.011 ± 0.002	LT 0.05
03/27/05	0.008 ± 0.002	LT 0.05
04/03/05	0.012 ± 0.002	LT 0.05
04/10/05	0.009 ± 0.002	LT 0.05
04/16/05	0.010 ± 0.002	LT 0.06
04/22/05	0.013 ± 0.002	LT 0.06
04/28/05	0.006 ± 0.002	LT 0.08
05/06/05	0.011 ± 0.002	LT 0.05
05/14/05	0.014 ± 0.002	LT 0.05
05/21/05	0.009 ± 0.002	LT 0.06
05/28/05	0.007 ± 0.002	LT 0.06
06/04/05	0.008 ± 0.002	LT 0.05
06/11/05	0.013 ± 0.002	LT 0.06
06/18/05	0.006 ± 0.001	LT 0.04
06/24/05	0.011 ± 0.002	LT 0.07

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/01/05	0.013 ± 0.002	LT 0.06
07/09/05	0.009 ± 0.002	LT 0.05
07/15/05	0.023 ± 0.002	LT 0.06
07/22/05	0.014 ± 0.002	LT 0.07
07/29/05	0.009 ± 0.002	LT 0.06
08/05/05	0.019 ± 0.002	LT 0.06
08/12/05	0.016 ± 0.002	LT 0.06
08/19/05	0.009 ± 0.002	LT 0.06
08/26/05	0.010 ± 0.002	LT 0.06
09/02/05	0.009 ± 0.002	LT 0.06
09/09/05	0.012 ± 0.002	LT 0.06
09/16/05	0.025 ± 0.002	LT 0.06
09/23/05	0.021 ± 0.002	LT 0.06
09/30/05	0.011 ± 0.002	LT 0.06
10/06/05	0.019 ± 0.002	LT 0.07
10/13/05	0.006 ± 0.001	LT 0.07
10/21/05	0.013 ± 0.002	LT 0.05
10/28/05	0.003 ± 0.001	LT 0.06
11/03/05	0.018 ± 0.002	LT 0.08
11/10/05	0.014 ± 0.002	LT 0.07
11/17/05	0.010 ± 0.002	LT 0.07
11/26/05	0.013 ± 0.002	LT 0.05
12/01/05	0.014 ± 0.002	LT 0.08
12/08/05	0.011 ± 0.002	LT 0.07
12/16/05	0.017 ± 0.002	LT 0.06
12/25/05	0.030 ± 0.002	LT 0.04
12/30/05	0.011 ± 0.002	LT 0.08

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Palisades
2005
Reactor Site Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/05	0.031 ± 0.002	LT 0.03
01/09/05	0.021 ± 0.002	LT 0.05
01/16/05	0.020 ± 0.002	LT 0.04
01/23/05	0.024 ± 0.002	LT 0.04
01/30/05	0.016 ± 0.002	LT 0.04
02/06/05	0.022 ± 0.002	LT 0.03
02/13/05	0.015 ± 0.002	LT 0.04
02/20/05	0.017 ± 0.002	LT 0.03
02/27/05	0.018 ± 0.002	LT 0.04
03/06/05	0.016 ± 0.002	LT 0.04
03/13/05	0.016 ± 0.002	LT 0.04
03/21/05	0.013 ± 0.002	LT 0.03
03/27/05	0.011 ± 0.002	LT 0.05
04/03/05	0.013 ± 0.002	LT 0.04
04/11/05	0.017 ± 0.002	LT 0.03
04/18/05	0.021 ± 0.002	LT 0.03
04/25/05	0.013 ± 0.002	LT 0.04
05/02/05	0.013 ± 0.002	LT 0.03
05/09/05	0.022 ± 0.002	LT 0.03
05/15/05	0.015 ± 0.002	LT 0.04
05/23/05	0.014 ± 0.002	LT 0.03
05/30/05	0.011 ± 0.002	LT 0.04
06/06/05	0.016 ± 0.002	LT 0.03
06/14/05	0.020 ± 0.002	LT 0.03
06/19/05	0.007 ± 0.002	LT 0.05
06/27/05	0.024 ± 0.002	LT 0.03

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/04/05	0.024 ± 0.002	LT 0.03
07/10/05	0.018 ± 0.002	LT 0.04
07/17/05	0.025 ± 0.002	LT 0.04
07/24/05	0.018 ± 0.002	LT 0.03
07/31/05	0.014 ± 0.002	LT 0.04
08/07/05	0.030 ± 0.002	LT 0.03
08/14/05	0.027 ± 0.002	LT 0.03
08/23/05	0.022 ± 0.002	LT 0.03
08/28/05	0.018 ± 0.003	LT 0.05
09/05/05	0.017 ± 0.002	LT 0.03
09/11/05	0.030 ± 0.003	LT 0.04
09/18/05	0.030 ± 0.002	LT 0.04
09/25/05	0.027 ± 0.002	LT 0.04
10/02/05	0.015 ± 0.002	LT 0.04
10/12/05	0.016 ± 0.002	LT 0.02
10/17/05	0.019 ± 0.003	LT 0.05
10/23/05	0.015 ± 0.002	LT 0.05
10/30/05	0.009 ± 0.002	LT 0.04
11/06/05	0.031 ± 0.003	LT 0.04
11/13/05	0.029 ± 0.002	LT 0.04
11/20/05	0.017 ± 0.002	LT 0.05
11/27/05	0.019 ± 0.002	LT 0.04
12/05/05	0.015 ± 0.002	LT 0.03
12/11/05	0.028 ± 0.003	LT 0.04
12/18/05	0.019 ± 0.002	LT 0.03
12/25/05	0.046 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Palisades
2005
Covert Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/05	0.024 ± 0.002	LT 0.03
01/09/05	0.016 ± 0.002	LT 0.05
01/16/05	0.018 ± 0.002	LT 0.04
01/23/05	0.017 ± 0.002	LT 0.04
01/30/05	0.014 ± 0.002	LT 0.04
02/06/05	0.018 ± 0.002	LT 0.03
02/13/05	0.011 ± 0.002	LT 0.04
02/20/05	0.014 ± 0.002	LT 0.03
02/27/05	0.014 ± 0.002	LT 0.04
03/06/05	0.013 ± 0.002	LT 0.04
03/13/05	0.013 ± 0.002	LT 0.04
03/21/05	0.010 ± 0.002	LT 0.03
03/27/05	0.009 ± 0.002	LT 0.05
04/03/05	0.011 ± 0.002	LT 0.04
04/11/05	0.014 ± 0.002	LT 0.03
04/18/05	0.016 ± 0.002	LT 0.03
04/25/05	0.009 ± 0.002	LT 0.04
05/02/05	0.010 ± 0.002	LT 0.03
05/09/05	0.018 ± 0.002	LT 0.03
05/15/05	0.010 ± 0.002	LT 0.04
05/23/05	0.010 ± 0.002	LT 0.03
05/30/05	0.009 ± 0.002	LT 0.04
06/06/05	0.013 ± 0.002	LT 0.03
06/14/05	0.017 ± 0.002	LT 0.03
06/19/05	0.004 ± 0.002	LT 0.05
06/27/05	0.009 ± 0.003	LT 0.06

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/04/05	0.011 ± 0.002	LT 0.05
07/10/05	0.012 ± 0.002	LT 0.04
07/17/05	0.019 ± 0.002	LT 0.04
07/24/05	0.014 ± 0.002	LT 0.04
07/31/05	0.012 ± 0.002	LT 0.04
08/07/05	0.022 ± 0.002	LT 0.03
08/14/05	0.019 ± 0.002	LT 0.03
08/23/05	0.016 ± 0.002	LT 0.03
08/28/05	0.012 ± 0.002	LT 0.05
09/05/05	0.013 ± 0.002	LT 0.03
09/11/05	0.025 ± 0.003	LT 0.04
09/18/05	0.021 ± 0.002	LT 0.04
09/25/05	0.019 ± 0.002	LT 0.04
10/02/05	0.011 ± 0.002	LT 0.04
10/12/05	0.013 ± 0.001	LT 0.02
10/17/05	0.014 ± 0.002	LT 0.04
10/23/05	0.011 ± 0.002	LT 0.05
10/30/05	0.008 ± 0.002	LT 0.04
11/06/05	0.023 ± 0.003	LT 0.07
11/13/05	NS	NS
11/20/05	0.014 ± 0.002	LT 0.05
11/27/05	0.014 ± 0.002	LT 0.04
12/05/05	0.014 ± 0.002	LT 0.03
12/11/05	0.033 ± 0.003	LT 0.04
12/18/05	0.018 ± 0.002	LT 0.03
12/25/05	0.037 ± 0.003	LT 0.04

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
Palisades
2005
South Haven Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/05	0.031 ± 0.002	LT 0.03
01/09/05	0.023 ± 0.003	LT 0.05
01/16/05	0.024 ± 0.002	LT 0.04
01/23/05	0.022 ± 0.002	LT 0.04
01/30/05	0.025 ± 0.004	LT 0.08
02/06/05	NS	NS
02/13/05	0.017 ± 0.002	LT 0.04
02/20/05	0.018 ± 0.002	LT 0.03
02/27/05	0.017 ± 0.002	LT 0.04
03/06/05	0.014 ± 0.002	LT 0.04
03/13/05	0.015 ± 0.002	LT 0.04
03/21/05	0.012 ± 0.002	LT 0.03
03/27/05	0.011 ± 0.002	LT 0.05
04/03/05	0.014 ± 0.002	LT 0.04
04/11/05	0.029 ± 0.003	LT 0.05
04/18/05	0.020 ± 0.002	LT 0.03
04/25/05	0.014 ± 0.002	LT 0.04
05/02/05	0.012 ± 0.002	LT 0.03
05/09/05	0.022 ± 0.002	LT 0.03
05/15/05	0.011 ± 0.002	LT 0.04
05/23/05	0.022 ± 0.003	LT 0.06
05/30/05	0.012 ± 0.002	LT 0.04
06/06/05	0.014 ± 0.002	LT 0.03
06/14/05	0.016 ± 0.002	LT 0.03
06/19/05	0.006 ± 0.002	LT 0.05
06/27/05	0.020 ± 0.002	LT 0.03

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/04/05	0.027 ± 0.002	LT 0.03
07/10/05	0.018 ± 0.002	LT 0.04
07/17/05	0.021 ± 0.002	LT 0.04
07/24/05	0.017 ± 0.002	LT 0.03
07/31/05	0.015 ± 0.002	LT 0.04
08/07/05	0.026 ± 0.002	LT 0.03
08/14/05	0.027 ± 0.002	LT 0.03
08/23/05	0.021 ± 0.002	LT 0.03
08/28/05	0.018 ± 0.003	LT 0.05
09/05/05	0.015 ± 0.002	LT 0.03
09/11/05	0.031 ± 0.003	LT 0.04
09/18/05	0.031 ± 0.003	LT 0.04
09/25/05	0.026 ± 0.002	LT 0.04
10/02/05	0.016 ± 0.002	LT 0.04
10/12/05	0.015 ± 0.002	LT 0.02
10/17/05	0.022 ± 0.003	LT 0.04
10/23/05	0.015 ± 0.002	LT 0.05
10/30/05	0.009 ± 0.002	LT 0.04
11/06/05	0.029 ± 0.002	LT 0.04
11/13/05	0.026 ± 0.002	LT 0.04
11/20/05	0.015 ± 0.002	LT 0.05
11/27/05	0.016 ± 0.002	LT 0.04
12/05/05	0.014 ± 0.002	LT 0.03
12/11/05	0.031 ± 0.003	LT 0.04
12/18/05	0.018 ± 0.002	LT 0.03
12/25/05	0.041 ± 0.003	LT 0.04

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2005
Reactor Site Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/02/05	0.032 ± 0.003	LT 0.04
01/09/05	0.020 ± 0.002	LT 0.04
01/16/05	0.019 ± 0.002	LT 0.04
01/23/05	0.022 ± 0.002	LT 0.04
01/30/05	0.017 ± 0.002	LT 0.04
02/06/05	0.021 ± 0.002	LT 0.04
02/13/05	0.015 ± 0.002	LT 0.04
02/20/05	0.021 ± 0.002	LT 0.03
02/27/05	0.018 ± 0.002	LT 0.04
03/06/05	0.015 ± 0.002	LT 0.04
03/13/05	0.016 ± 0.002	LT 0.04
03/21/05	0.012 ± 0.002	LT 0.03
03/27/05	0.011 ± 0.002	LT 0.05
04/03/05	0.013 ± 0.002	LT 0.04
04/11/05	0.016 ± 0.002	LT 0.03
04/18/05	0.020 ± 0.002	LT 0.03
04/25/05	0.013 ± 0.002	LT 0.03
05/02/05	0.013 ± 0.002	LT 0.03
05/09/05	0.025 ± 0.002	LT 0.03
05/15/05	0.013 ± 0.002	LT 0.04
05/23/05	0.015 ± 0.002	LT 0.03
05/30/05	0.012 ± 0.002	LT 0.04
06/06/05	0.014 ± 0.002	LT 0.03
06/14/05	0.017 ± 0.002	LT 0.03
06/19/05	0.008 ± 0.002	LT 0.04
06/27/05	0.020 ± 0.002	LT 0.03

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/04/05	0.022 ± 0.002	LT 0.03
07/10/05	0.018 ± 0.002	LT 0.04
07/17/05	0.021 ± 0.002	LT 0.04
07/24/05	0.016 ± 0.002	LT 0.04
07/31/05	0.019 ± 0.002	LT 0.04
08/07/05	0.027 ± 0.002	LT 0.04
08/14/05	0.030 ± 0.003	LT 0.03
08/23/05	0.019 ± 0.002	LT 0.03
08/28/05	0.018 ± 0.003	LT 0.05
09/05/05	0.018 ± 0.002	LT 0.03
09/11/05	0.032 ± 0.003	LT 0.05
09/18/05	0.028 ± 0.002	LT 0.04
09/25/05	0.025 ± 0.002	LT 0.03
10/02/05	0.014 ± 0.002	LT 0.04
10/12/05	0.014 ± 0.002	LT 0.02
10/17/05	0.018 ± 0.003	LT 0.04
10/23/05	0.015 ± 0.002	LT 0.05
10/30/05	0.009 ± 0.002	LT 0.04
11/06/05	0.026 ± 0.002	LT 0.03
11/13/05	0.027 ± 0.002	LT 0.03
11/20/05	0.015 ± 0.002	LT 0.05
11/27/05	0.017 ± 0.002	LT 0.04
12/05/05	0.015 ± 0.002	LT 0.03
12/11/05	0.033 ± 0.003	LT 0.04
12/18/05	0.021 ± 0.002	LT 0.04
12/25/05	0.045 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2005
Bridgman Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/02/05	0.035 ± 0.003	LT 0.03
01/09/05	0.024 ± 0.002	LT 0.04
01/16/05	0.018 ± 0.002	LT 0.04
01/23/05	0.021 ± 0.002	LT 0.04
01/30/05	0.020 ± 0.002	LT 0.04
02/06/05	0.024 ± 0.002	LT 0.03
02/13/05	0.016 ± 0.002	LT 0.04
02/20/05	0.018 ± 0.002	LT 0.03
02/27/05	0.019 ± 0.002	LT 0.04
03/06/05	0.017 ± 0.002	LT 0.04
03/13/05	0.018 ± 0.002	LT 0.04
03/21/05	0.014 ± 0.002	LT 0.03
03/27/05	0.012 ± 0.002	LT 0.05
04/03/05	0.016 ± 0.002	LT 0.04
04/11/05	0.018 ± 0.002	LT 0.03
04/18/05	0.027 ± 0.002	LT 0.03
04/25/05	0.013 ± 0.002	LT 0.03
05/02/05	0.014 ± 0.002	LT 0.03
05/09/05	0.029 ± 0.002	LT 0.03
05/15/05	0.014 ± 0.002	LT 0.04
05/23/05	0.015 ± 0.002	LT 0.03
05/30/05	0.015 ± 0.002	LT 0.04
06/06/05	0.015 ± 0.002	LT 0.03
06/14/05	0.018 ± 0.002	LT 0.03
06/19/05	0.007 ± 0.002	LT 0.05
06/27/05	0.027 ± 0.002	LT 0.03

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/04/05	0.026 ± 0.002	LT 0.03
07/10/05	0.021 ± 0.003	LT 0.04
07/17/05	0.026 ± 0.002	LT 0.04
07/24/05	0.021 ± 0.002	LT 0.04
07/31/05	0.019 ± 0.002	LT 0.04
08/07/05	0.030 ± 0.003	LT 0.04
08/14/05	0.031 ± 0.003	LT 0.03
08/23/05	0.020 ± 0.002	LT 0.03
08/28/05	0.021 ± 0.003	LT 0.05
09/05/05	0.021 ± 0.002	LT 0.03
09/11/05	0.037 ± 0.003	LT 0.04
09/18/05	0.030 ± 0.002	LT 0.04
09/25/05	0.027 ± 0.002	LT 0.03
10/02/05	0.016 ± 0.002	LT 0.04
10/12/05	0.017 ± 0.002	LT 0.02
10/17/05	0.028 ± 0.003	LT 0.04
10/23/05	0.015 ± 0.002	LT 0.05
10/30/05	0.010 ± 0.002	LT 0.04
11/06/05	0.032 ± 0.003	LT 0.03
11/13/05	0.033 ± 0.003	LT 0.03
11/20/05	0.017 ± 0.002	LT 0.05
11/27/05	0.018 ± 0.002	LT 0.03
12/05/05	0.016 ± 0.002	LT 0.03
12/11/05	0.039 ± 0.003	LT 0.04
12/18/05	0.023 ± 0.002	LT 0.04
12/25/05	0.044 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2005
Stevensville Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/02/05	0.032 ± 0.003	LT 0.04
01/09/05	0.022 ± 0.002	LT 0.04
01/16/05	0.020 ± 0.002	LT 0.04
01/23/05	0.023 ± 0.002	LT 0.04
01/30/05	0.019 ± 0.002	LT 0.04
02/06/05	0.022 ± 0.002	LT 0.03
02/13/05	0.016 ± 0.002	LT 0.04
02/20/05	0.018 ± 0.002	LT 0.03
02/27/05	0.020 ± 0.002	LT 0.04
03/06/05	0.015 ± 0.002	LT 0.04
03/13/05	0.016 ± 0.002	LT 0.04
03/21/05	0.016 ± 0.002	LT 0.03
03/27/05	0.013 ± 0.002	LT 0.05
04/03/05	0.014 ± 0.002	LT 0.04
04/11/05	0.017 ± 0.002	LT 0.03
04/18/05	0.025 ± 0.002	LT 0.03
04/25/05	0.014 ± 0.002	LT 0.04
05/02/05	0.015 ± 0.002	LT 0.03
05/09/05	0.027 ± 0.002	LT 0.03
05/15/05	0.011 ± 0.002	LT 0.04
05/23/05	0.014 ± 0.002	LT 0.03
05/30/05	0.012 ± 0.002	LT 0.04
06/06/05	0.015 ± 0.002	LT 0.03
06/14/05	0.017 ± 0.002	LT 0.03
06/19/05	0.006 ± 0.002	LT 0.05
06/27/05	0.028 ± 0.002	LT 0.03

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/04/05	0.025 ± 0.002	LT 0.03
07/10/05	0.019 ± 0.002	LT 0.04
07/17/05	0.022 ± 0.002	LT 0.04
07/24/05	0.019 ± 0.002	LT 0.04
07/31/05	0.017 ± 0.002	LT 0.04
08/07/05	0.028 ± 0.002	LT 0.03
08/14/05	0.028 ± 0.002	LT 0.03
08/23/05	0.020 ± 0.002	LT 0.03
08/28/05	0.019 ± 0.003	LT 0.05
09/05/05	0.020 ± 0.002	LT 0.03
09/11/05	0.036 ± 0.003	LT 0.04
09/18/05	0.031 ± 0.003	LT 0.04
09/25/05	0.026 ± 0.002	LT 0.03
10/02/05	0.017 ± 0.002	LT 0.04
10/12/05	0.017 ± 0.002	LT 0.02
10/17/05	0.027 ± 0.003	LT 0.04
10/23/05	0.015 ± 0.002	LT 0.05
10/30/05	0.008 ± 0.002	LT 0.04
11/06/05	0.031 ± 0.003	LT 0.03
11/13/05	0.030 ± 0.003	LT 0.03
11/20/05	0.018 ± 0.002	LT 0.05
11/27/05	0.019 ± 0.002	LT 0.04
12/05/05	0.015 ± 0.002	LT 0.03
12/11/05	0.032 ± 0.003	LT 0.04
12/18/05	0.020 ± 0.002	LT 0.04
12/25/05	0.043 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2005
Livingston Road Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/02/05	0.035 ± 0.003	LT 0.04
01/09/05	0.023 ± 0.002	LT 0.04
01/16/05	0.016 ± 0.002	LT 0.04
01/23/05	0.023 ± 0.002	LT 0.04
01/30/05	0.020 ± 0.002	LT 0.04
02/06/05	0.024 ± 0.002	LT 0.03
02/13/05	0.018 ± 0.002	LT 0.04
02/20/05	0.023 ± 0.002	LT 0.03
02/27/05	0.020 ± 0.002	LT 0.04
03/06/05	0.016 ± 0.002	LT 0.04
03/13/05	0.018 ± 0.002	LT 0.04
03/21/05	0.013 ± 0.002	LT 0.03
03/27/05	0.012 ± 0.002	LT 0.05
04/03/05	0.015 ± 0.002	LT 0.04
04/11/05	0.015 ± 0.002	LT 0.03
04/18/05	0.022 ± 0.002	LT 0.03
04/25/05	0.014 ± 0.002	LT 0.03
05/02/05	0.017 ± 0.002	LT 0.03
05/09/05	0.026 ± 0.002	LT 0.03
05/15/05	0.013 ± 0.002	LT 0.04
05/23/05	0.016 ± 0.002	LT 0.03
05/30/05	0.014 ± 0.002	LT 0.04
06/06/05	0.014 ± 0.002	LT 0.03
06/14/05	0.015 ± 0.002	LT 0.03
06/19/05	0.007 ± 0.002	LT 0.04
06/27/05	0.027 ± 0.002	LT 0.03

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/04/05	0.024 ± 0.002	LT 0.03
07/10/05	0.018 ± 0.002	LT 0.04
07/17/05	0.023 ± 0.002	LT 0.04
07/24/05	0.016 ± 0.002	LT 0.04
07/31/05	0.014 ± 0.002	LT 0.04
08/07/05	0.029 ± 0.003	LT 0.04
08/14/05	0.028 ± 0.002	LT 0.03
08/23/05	0.019 ± 0.002	LT 0.03
08/28/05	0.018 ± 0.003	LT 0.05
09/05/05	0.018 ± 0.002	LT 0.03
09/11/05	0.037 ± 0.003	LT 0.05
09/18/05	0.031 ± 0.003	LT 0.04
09/25/05	0.024 ± 0.002	LT 0.03
10/02/05	0.015 ± 0.002	LT 0.04
10/12/05	0.015 ± 0.002	LT 0.02
10/17/05	0.020 ± 0.003	LT 0.04
10/23/05	0.014 ± 0.002	LT 0.05
10/30/05	0.008 ± 0.002	LT 0.04
11/06/05	0.027 ± 0.002	LT 0.03
11/13/05	0.029 ± 0.002	LT 0.03
11/20/05	0.015 ± 0.002	LT 0.05
11/27/05	0.017 ± 0.002	LT 0.04
12/05/05	0.014 ± 0.002	LT 0.03
12/11/05	0.034 ± 0.003	LT 0.04
12/18/05	0.018 ± 0.002	LT 0.03
12/25/05	0.045 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2005
Peddy Farm Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/02/05	0.030 ± 0.003	LT 0.04
01/09/05	0.024 ± 0.002	LT 0.04
01/16/05	0.019 ± 0.002	LT 0.04
01/23/05	0.023 ± 0.002	LT 0.04
01/30/05	0.018 ± 0.002	LT 0.04
02/06/05	0.021 ± 0.002	LT 0.03
02/13/05	0.013 ± 0.002	LT 0.04
02/20/05	0.015 ± 0.002	LT 0.04
02/27/05	0.019 ± 0.002	LT 0.04
03/06/05	0.015 ± 0.002	LT 0.04
03/13/05	0.016 ± 0.002	LT 0.04
03/21/05	0.015 ± 0.002	LT 0.03
03/27/05	0.014 ± 0.002	LT 0.05
04/03/05	0.014 ± 0.002	LT 0.04
04/11/05	0.016 ± 0.002	LT 0.03
04/18/05	0.036 ± 0.003	LT 0.03
04/25/05	0.015 ± 0.002	LT 0.04
05/02/05	0.014 ± 0.002	LT 0.03
05/09/05	0.030 ± 0.002	LT 0.03
05/15/05	0.012 ± 0.002	LT 0.04
05/23/05	0.015 ± 0.002	LT 0.03
05/30/05	0.015 ± 0.002	LT 0.04
06/06/05	0.015 ± 0.002	LT 0.03
06/14/05	0.016 ± 0.002	LT 0.03
06/19/05	0.009 ± 0.002	LT 0.05
06/27/05	0.027 ± 0.002	LT 0.03

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/04/05	0.026 ± 0.002	LT 0.03
07/10/05	0.020 ± 0.002	LT 0.04
07/17/05	0.024 ± 0.002	LT 0.04
07/24/05	0.020 ± 0.002	LT 0.04
07/31/05	0.017 ± 0.003	LT 0.04
08/07/05	NS	NS
08/14/05	NS	NS
08/23/05	NS	NS
08/28/05	NS	NS
09/05/05	0.016 ± 0.002	LT 0.03
09/11/05	0.036 ± 0.003	LT 0.05
09/18/05	0.026 ± 0.002	LT 0.04
09/25/05	0.024 ± 0.002	LT 0.04
10/02/05	0.010 ± 0.002	LT 0.04
10/12/05	0.013 ± 0.001	LT 0.02
10/17/05	0.028 ± 0.003	LT 0.04
10/23/05	0.013 ± 0.002	LT 0.05
10/30/05	0.009 ± 0.002	LT 0.04
11/06/05	0.056 ± 0.005	LT 0.06
11/13/05	0.028 ± 0.002	LT 0.03
11/20/05	0.015 ± 0.002	LT 0.05
11/27/05	0.019 ± 0.002	LT 0.04
12/05/05	0.016 ± 0.002	LT 0.03
12/11/05	0.036 ± 0.003	LT 0.04
12/18/05	0.024 ± 0.002	LT 0.04
12/25/05	0.042 ± 0.003	LT 0.04

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
Fermi 2
2005
Reactor Site Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/06/05	0.028 ± 0.003	LT 0.05
01/13/05	0.011 ± 0.002	LT 0.04
01/20/05	0.028 ± 0.002	LT 0.03
01/27/05	0.023 ± 0.002	LT 0.04
02/03/05	0.023 ± 0.002	LT 0.04
02/10/05	0.026 ± 0.002	LT 0.04
02/17/05	0.023 ± 0.002	LT 0.04
02/24/05	0.019 ± 0.002	LT 0.04
03/03/05	0.018 ± 0.002	LT 0.04
03/10/05	0.023 ± 0.002	LT 0.04
03/17/05	0.019 ± 0.002	LT 0.04
03/24/05	0.014 ± 0.002	LT 0.04
03/31/05	0.016 ± 0.002	LT 0.04
04/07/05	0.016 ± 0.002	LT 0.04
04/14/05	0.013 ± 0.002	LT 0.04
04/21/05	0.025 ± 0.002	LT 0.03
04/28/05	0.011 ± 0.002	LT 0.04
05/05/05	0.013 ± 0.002	LT 0.04
05/12/05	0.024 ± 0.002	LT 0.04
05/19/05	0.013 ± 0.002	LT 0.04
05/26/05	0.013 ± 0.002	LT 0.04
06/02/05	0.016 ± 0.002	LT 0.04
06/09/05	0.020 ± 0.002	LT 0.04
06/16/05	0.015 ± 0.002	LT 0.04
06/23/05	0.010 ± 0.002	LT 0.03
06/30/05	0.031 ± 0.003	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/07/05	0.009 ± 0.002	LT 0.04
07/14/05	0.022 ± 0.002	LT 0.04
07/21/05	0.021 ± 0.002	LT 0.03
07/28/05	0.020 ± 0.002	LT 0.04
08/04/05	0.027 ± 0.002	LT 0.04
08/11/05	0.030 ± 0.003	LT 0.04
08/18/05	0.027 ± 0.002	LT 0.04
08/25/05	0.016 ± 0.002	LT 0.04
09/01/05	0.030 ± 0.003	LT 0.04
09/08/05	0.023 ± 0.002	LT 0.04
09/15/05	0.032 ± 0.003	LT 0.04
09/22/05	0.030 ± 0.003	LT 0.04
09/29/05	0.022 ± 0.002	LT 0.04
10/06/05	0.034 ± 0.003	LT 0.04
10/13/05	0.005 ± 0.002	LT 0.06
10/20/05	0.022 ± 0.002	LT 0.03
10/27/05	0.010 ± 0.002	LT 0.04
11/03/05	0.027 ± 0.002	LT 0.04
11/10/05	0.032 ± 0.003	LT 0.04
11/17/05	0.019 ± 0.002	LT 0.04
11/24/05	0.025 ± 0.002	LT 0.05
12/01/05	0.022 ± 0.002	LT 0.04
12/08/05	0.027 ± 0.002	LT 0.04
12/15/05	0.029 ± 0.002	LT 0.04
12/22/05	0.037 ± 0.003	LT 0.05
12/29/05	0.037 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Fermi 2
2005
Pointe Aux Peaux Road Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/06/05	0.024 ± 0.003	LT 0.05
01/13/05	0.017 ± 0.002	LT 0.04
01/20/05	0.022 ± 0.002	LT 0.03
01/27/05	0.020 ± 0.002	LT 0.04
02/03/05	0.017 ± 0.002	LT 0.04
02/10/05	0.023 ± 0.002	LT 0.04
02/17/05	0.022 ± 0.002	LT 0.04
02/24/05	0.018 ± 0.002	LT 0.04
03/03/05	0.016 ± 0.002	LT 0.04
03/10/05	0.021 ± 0.002	LT 0.04
03/17/05	0.017 ± 0.002	LT 0.04
03/24/05	0.013 ± 0.002	LT 0.04
03/31/05	0.016 ± 0.002	LT 0.04
04/07/05	0.017 ± 0.002	LT 0.04
04/14/05	0.014 ± 0.002	LT 0.04
04/21/05	0.021 ± 0.002	LT 0.03
04/28/05	0.011 ± 0.002	LT 0.04
05/05/05	0.014 ± 0.002	LT 0.04
05/12/05	0.023 ± 0.002	LT 0.04
05/19/05	0.012 ± 0.002	LT 0.04
05/26/05	0.012 ± 0.002	LT 0.04
06/02/05	0.015 ± 0.002	LT 0.04
06/09/05	0.019 ± 0.002	LT 0.04
06/16/05	0.014 ± 0.002	LT 0.04
06/23/05	0.009 ± 0.002	LT 0.03
06/30/05	0.030 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/07/05	0.016 ± 0.002	LT 0.04
07/14/05	0.025 ± 0.002	LT 0.04
07/21/05	0.020 ± 0.002	LT 0.03
07/28/05	0.018 ± 0.002	LT 0.04
08/04/05	0.030 ± 0.003	LT 0.04
08/11/05	0.028 ± 0.002	LT 0.04
08/18/05	0.023 ± 0.002	LT 0.04
08/25/05	0.016 ± 0.002	LT 0.04
09/01/05	0.028 ± 0.002	LT 0.04
09/08/05	0.022 ± 0.002	LT 0.04
09/15/05	0.031 ± 0.003	LT 0.04
09/22/05	0.027 ± 0.002	LT 0.04
09/29/05	0.022 ± 0.002	LT 0.04
10/06/05	0.040 ± 0.003	LT 0.04
10/13/05	0.006 ± 0.001	LT 0.04
10/20/05	0.020 ± 0.002	LT 0.03
10/27/05	0.009 ± 0.002	LT 0.04
11/03/05	0.024 ± 0.002	LT 0.04
11/10/05	0.028 ± 0.002	LT 0.04
11/17/05	0.017 ± 0.002	LT 0.04
11/24/05	0.024 ± 0.002	LT 0.05
12/01/05	0.019 ± 0.002	LT 0.04
12/08/05	0.026 ± 0.002	LT 0.04
12/15/05	0.028 ± 0.002	LT 0.04
12/22/05	0.033 ± 0.003	LT 0.05
12/29/05	0.032 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Fermi 2
2005
Nadeau Road Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/06/05	0.021 ± 0.002	LT 0.05
01/13/05	0.014 ± 0.002	LT 0.04
01/20/05	0.022 ± 0.002	LT 0.03
01/27/05	0.018 ± 0.002	LT 0.04
02/03/05	0.017 ± 0.002	LT 0.04
02/10/05	0.021 ± 0.002	LT 0.04
02/17/05	0.019 ± 0.002	LT 0.04
02/24/05	0.016 ± 0.002	LT 0.04
03/03/05	0.013 ± 0.002	LT 0.04
03/10/05	0.017 ± 0.002	LT 0.04
03/17/05	0.015 ± 0.002	LT 0.04
03/24/05	0.012 ± 0.002	LT 0.04
03/31/05	0.011 ± 0.002	LT 0.04
04/07/05	0.014 ± 0.002	LT 0.04
04/14/05	0.010 ± 0.002	LT 0.04
04/21/05	0.019 ± 0.002	LT 0.03
04/28/05	0.008 ± 0.002	LT 0.04
05/05/05	0.011 ± 0.002	LT 0.04
05/12/05	0.019 ± 0.002	LT 0.04
05/19/05	0.010 ± 0.002	LT 0.04
05/26/05	0.011 ± 0.002	LT 0.04
06/02/05	0.013 ± 0.002	LT 0.04
06/09/05	0.016 ± 0.002	LT 0.04
06/16/05	0.011 ± 0.002	LT 0.04
06/23/05	0.008 ± 0.002	LT 0.03
06/30/05	0.025 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/07/05	0.013 ± 0.002	LT 0.04
07/14/05	0.019 ± 0.002	LT 0.04
07/21/05	0.016 ± 0.002	LT 0.03
07/28/05	0.016 ± 0.002	LT 0.04
08/04/05	0.024 ± 0.002	LT 0.04
08/11/05	0.022 ± 0.002	LT 0.04
08/18/05	0.019 ± 0.002	LT 0.04
08/25/05	0.013 ± 0.002	LT 0.04
09/01/05	0.023 ± 0.002	LT 0.04
09/08/05	0.017 ± 0.002	LT 0.04
09/15/05	0.028 ± 0.002	LT 0.04
09/22/05	0.023 ± 0.002	LT 0.04
09/29/05	0.017 ± 0.002	LT 0.04
10/06/05	0.031 ± 0.003	LT 0.04
10/13/05	0.005 ± 0.001	LT 0.04
10/20/05	0.017 ± 0.002	LT 0.03
10/27/05	0.008 ± 0.002	LT 0.04
11/03/05	0.006 ± 0.001	LT 0.04
11/10/05	0.024 ± 0.002	LT 0.04
11/17/05	0.013 ± 0.002	LT 0.04
11/24/05	0.020 ± 0.002	LT 0.05
12/01/05	0.017 ± 0.002	LT 0.04
12/08/05	0.022 ± 0.002	LT 0.04
12/15/05	0.025 ± 0.002	LT 0.04
12/22/05	0.033 ± 0.003	LT 0.05
12/29/05	0.030 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Fermi 2
2005
Dixie Highway Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/06/05	0.024 ± 0.002	LT 0.05
01/13/05	0.015 ± 0.002	LT 0.04
01/20/05	0.021 ± 0.002	LT 0.03
01/27/05	0.021 ± 0.002	LT 0.04
02/03/05	0.020 ± 0.002	LT 0.04
02/10/05	0.023 ± 0.002	LT 0.04
02/17/05	0.022 ± 0.002	LT 0.04
02/24/05	0.018 ± 0.002	LT 0.04
03/03/05	0.014 ± 0.002	LT 0.04
03/10/05	0.019 ± 0.002	LT 0.04
03/17/05	0.016 ± 0.002	LT 0.04
03/24/05	0.012 ± 0.002	LT 0.04
03/31/05	0.013 ± 0.002	LT 0.04
04/07/05	0.014 ± 0.002	LT 0.04
04/14/05	0.012 ± 0.002	LT 0.04
04/21/05	0.021 ± 0.002	LT 0.03
04/28/05	0.009 ± 0.002	LT 0.04
05/05/05	0.012 ± 0.002	LT 0.04
05/12/05	0.020 ± 0.002	LT 0.04
05/19/05	0.013 ± 0.002	LT 0.04
05/26/05	0.011 ± 0.002	LT 0.04
06/02/05	0.012 ± 0.002	LT 0.04
06/09/05	0.016 ± 0.002	LT 0.04
06/16/05	0.012 ± 0.002	LT 0.04
06/23/05	0.009 ± 0.002	LT 0.03
06/30/05	0.028 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/07/05	0.014 ± 0.002	LT 0.04
07/14/05	0.023 ± 0.002	LT 0.04
07/21/05	0.017 ± 0.002	LT 0.03
07/28/05	0.017 ± 0.002	LT 0.04
08/04/05	0.023 ± 0.002	LT 0.04
08/11/05	0.025 ± 0.002	LT 0.04
08/18/05	0.021 ± 0.002	LT 0.04
08/25/05	0.015 ± 0.002	LT 0.04
09/01/05	0.025 ± 0.002	LT 0.04
09/08/05	0.019 ± 0.002	LT 0.04
09/15/05	0.025 ± 0.002	LT 0.04
09/22/05	0.025 ± 0.002	LT 0.04
09/29/05	0.020 ± 0.002	LT 0.04
10/06/05	0.031 ± 0.003	LT 0.04
10/13/05	0.006 ± 0.001	LT 0.04
10/20/05	0.017 ± 0.002	LT 0.03
10/27/05	0.011 ± 0.002	LT 0.04
11/03/05	0.022 ± 0.002	LT 0.04
11/10/05	0.027 ± 0.002	LT 0.04
11/17/05	0.014 ± 0.002	LT 0.04
11/24/05	0.022 ± 0.002	LT 0.05
12/01/05	0.022 ± 0.002	LT 0.04
12/08/05	0.023 ± 0.002	LT 0.04
12/15/05	0.028 ± 0.002	LT 0.04
12/22/05	0.031 ± 0.003	LT 0.05
12/29/05	0.031 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Fermi 2
2005
Fix Farm Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/06/05	0.028 ± 0.003	LT 0.05
01/13/05	0.020 ± 0.002	LT 0.04
01/20/05	0.024 ± 0.002	LT 0.03
01/27/05	0.021 ± 0.002	LT 0.04
02/03/05	0.019 ± 0.002	LT 0.04
02/10/05	0.028 ± 0.002	LT 0.04
02/17/05	0.022 ± 0.002	LT 0.04
02/24/05	0.022 ± 0.002	LT 0.04
03/03/05	0.017 ± 0.002	LT 0.04
03/10/05	0.019 ± 0.002	LT 0.04
03/17/05	0.017 ± 0.002	LT 0.04
03/24/05	0.014 ± 0.002	LT 0.04
03/31/05	0.014 ± 0.002	LT 0.04
04/07/05	0.017 ± 0.002	LT 0.04
04/14/05	0.015 ± 0.002	LT 0.04
04/21/05	0.023 ± 0.002	LT 0.03
04/28/05	0.011 ± 0.002	LT 0.04
05/05/05	0.013 ± 0.002	LT 0.04
05/12/05	0.024 ± 0.002	LT 0.04
05/19/05	0.013 ± 0.002	LT 0.04
05/26/05	0.014 ± 0.002	LT 0.04
06/02/05	0.016 ± 0.002	LT 0.04
06/09/05	0.020 ± 0.002	LT 0.04
06/16/05	0.015 ± 0.002	LT 0.04
06/23/05	0.009 ± 0.002	LT 0.03
06/30/05	0.030 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/07/05	0.017 ± 0.002	LT 0.04
07/14/05	0.026 ± 0.002	LT 0.04
07/21/05	0.019 ± 0.002	LT 0.03
07/28/05	0.020 ± 0.002	LT 0.04
08/04/05	0.029 ± 0.002	LT 0.04
08/11/05	0.029 ± 0.002	LT 0.04
08/18/05	0.024 ± 0.002	LT 0.04
08/25/05	0.014 ± 0.002	LT 0.04
09/01/05	0.031 ± 0.003	LT 0.04
09/08/05	0.023 ± 0.002	LT 0.04
09/15/05	0.034 ± 0.003	LT 0.04
09/22/05	0.012 ± 0.003	LT 0.08
09/29/05	0.019 ± 0.004	LT 0.1
10/06/05	0.038 ± 0.003	LT 0.04
10/13/05	0.007 ± 0.002	LT 0.04
10/20/05	0.018 ± 0.002	LT 0.03
10/27/05	0.010 ± 0.002	LT 0.04
11/03/05	0.024 ± 0.002	LT 0.04
11/10/05	0.032 ± 0.003	LT 0.04
11/17/05	0.015 ± 0.002	LT 0.04
11/24/05	0.023 ± 0.002	LT 0.05
12/01/05	0.019 ± 0.003	LT 0.08
12/08/05	0.026 ± 0.003	LT 0.04
12/15/05	0.024 ± 0.002	LT 0.04
12/22/05	0.039 ± 0.003	LT 0.05
12/29/05	0.037 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
2005
Lansing Background Reference Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/05	0.032 ± 0.003	LT 0.02
01/10/05	0.022 ± 0.002	LT 0.03
01/18/05	0.022 ± 0.002	LT 0.02
01/24/05	0.020 ± 0.002	LT 0.02
01/31/05	0.020 ± 0.002	LT 0.02
02/07/05	0.022 ± 0.002	LT 0.03
02/14/05	0.015 ± 0.002	LT 0.03
02/22/05	0.018 ± 0.002	LT 0.02
02/28/05	0.017 ± 0.002	LT 0.03
03/07/05	0.016 ± 0.002	LT 0.03
03/14/05	0.016 ± 0.002	LT 0.03
03/21/05	0.014 ± 0.002	LT 0.02
03/28/05	0.015 ± 0.002	LT 0.03
04/04/05	0.015 ± 0.002	LT 0.03
04/11/05	0.021 ± 0.002	LT 0.03
04/18/05	0.021 ± 0.002	LT 0.03
04/25/05	0.017 ± 0.002	LT 0.03
05/02/05	0.012 ± 0.002	LT 0.03
05/09/05	0.025 ± 0.002	LT 0.03
05/16/05	0.013 ± 0.002	LT 0.03
05/23/05	0.019 ± 0.002	LT 0.03
05/31/05	0.012 ± 0.002	LT 0.02
06/06/05	0.012 ± 0.002	LT 0.03
06/13/05	0.018 ± 0.002	LT 0.03
06/20/05	0.005 ± 0.001	LT 0.03
06/27/05	0.022 ± 0.002	LT 0.03

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/05/05	0.025 ± 0.002	LT 0.02
07/11/05	0.017 ± 0.002	LT 0.03
07/18/05	0.025 ± 0.002	LT 0.02
07/25/05	0.018 ± 0.002	LT 0.02
08/01/05	0.016 ± 0.002	LT 0.03
08/08/05	0.028 ± 0.002	LT 0.03
08/15/05	0.029 ± 0.002	LT 0.03
08/22/05	0.022 ± 0.002	LT 0.03
08/29/05	0.019 ± 0.002	LT 0.03
09/06/05	0.018 ± 0.002	LT 0.02
09/12/05	0.032 ± 0.003	LT 0.03
09/19/05	0.033 ± 0.003	LT 0.02
09/26/05	0.026 ± 0.002	LT 0.03
10/03/05	0.020 ± 0.002	LT 0.03
10/10/05	0.025 ± 0.002	LT 0.03
10/17/05	0.016 ± 0.002	LT 0.03
10/24/05	0.016 ± 0.002	LT 0.03
10/31/05	0.014 ± 0.002	LT 0.03
11/07/05	0.029 ± 0.002	LT 0.02
11/14/05	0.026 ± 0.002	LT 0.03
11/21/05	0.016 ± 0.002	LT 0.03
11/28/05	0.019 ± 0.002	LT 0.03
12/05/05	0.014 ± 0.002	LT 0.03
12/12/05	0.023 ± 0.002	LT 0.02
12/19/05	0.020 ± 0.002	LT 0.03
12/27/05	0.039 ± 0.003	LT 0.02

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Big Rock Point
2006
Reactor Site Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/05/06	0.009 ± 0.002	LT 0.08
01/12/06	0.012 ± 0.002	LT 0.06
01/19/06	0.017 ± 0.002	LT 0.06
01/25/06	0.021 ± 0.002	LT 0.08
02/02/06	0.016 ± 0.002	LT 0.06
02/09/06	0.016 ± 0.002	LT 0.07
02/15/06	0.014 ± 0.002	LT 0.08
02/22/06	0.021 ± 0.002	LT 0.07
03/01/06	0.015 ± 0.002	LT 0.07
03/08/06	0.010 ± 0.002	LT 0.07
03/15/06	0.015 ± 0.002	LT 0.07
03/22/06	0.014 ± 0.002	LT 0.07
03/29/06	0.008 ± 0.002	LT 0.07
04/05/06	0.015 ± 0.002	LT 0.07
04/12/06	0.016 ± 0.002	LT 0.07
04/19/06	0.012 ± 0.002	LT 0.07
04/26/06	0.010 ± 0.002	LT 0.07
05/03/06	0.015 ± 0.002	LT 0.07
05/10/06	0.013 ± 0.002	LT 0.07
05/17/06	0.009 ± 0.002	LT 0.08
05/24/06	0.007 ± 0.001	LT 0.07
05/31/06	0.018 ± 0.002	LT 0.07
06/07/06	0.010 ± 0.002	LT 0.07
06/14/06	0.009 ± 0.002	LT 0.07
06/21/06	0.015 ± 0.002	LT 0.07
06/28/06	0.012 ± 0.002	LT 0.07

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/05/06	0.017 ± 0.002	LT 0.07
07/12/06	0.012 ± 0.002	LT 0.07
07/19/06	0.020 ± 0.002	LT 0.07
07/26/06	0.011 ± 0.002	LT 0.07
08/02/06	0.021 ± 0.002	LT 0.07
08/08/06	0.005 ± 0.002	LT 0.08

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Big Rock Point
2006
Charlevoix Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/05/06	0.009 ± 0.002	LT 0.08
01/12/06	0.013 ± 0.002	LT 0.06
01/19/06	0.017 ± 0.002	LT 0.06
01/25/06	0.017 ± 0.002	LT 0.08
02/02/06	0.014 ± 0.002	LT 0.06
02/09/06	0.016 ± 0.002	LT 0.07
02/15/06	0.014 ± 0.002	LT 0.08
02/22/06	0.019 ± 0.002	LT 0.07
03/01/06	0.014 ± 0.002	LT 0.07
03/08/06	0.011 ± 0.002	LT 0.07
03/15/06	0.016 ± 0.002	LT 0.07
03/22/06	0.014 ± 0.002	LT 0.07
03/29/06	0.009 ± 0.002	LT 0.07
04/05/06	0.013 ± 0.002	LT 0.07
04/12/06	0.015 ± 0.002	LT 0.07
04/19/06	0.010 ± 0.002	LT 0.07
04/26/06	0.008 ± 0.002	LT 0.07
05/03/06	0.015 ± 0.002	LT 0.07
05/10/06	0.014 ± 0.002	LT 0.07
05/17/06	0.007 ± 0.001	LT 0.08
05/24/06	0.007 ± 0.001	LT 0.07
05/31/06	0.016 ± 0.002	LT 0.07
06/07/06	0.011 ± 0.002	LT 0.07
06/14/06	0.009 ± 0.002	LT 0.07
06/21/06	0.016 ± 0.002	LT 0.07
06/28/06	0.012 ± 0.002	LT 0.07

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/05/06	0.015 ± 0.002	LT 0.07
07/12/06	0.014 ± 0.002	LT 0.07
07/19/06	0.016 ± 0.002	LT 0.07
07/26/06	0.012 ± 0.002	LT 0.07
08/02/06	0.019 ± 0.002	LT 0.07
08/08/06	0.013 ± 0.002	LT 0.08
08/16/06	0.013 ± 0.002	LT 0.07
08/23/06	0.015 ± 0.002	LT 0.08
08/30/06	0.012 ± 0.002	LT 0.07
09/06/06	0.010 ± 0.002	LT 0.07
09/12/06	0.013 ± 0.002	LT 0.09
09/22/06	0.015 ± 0.002	LT 0.02

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Palisades
2006
Reactor Site Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/06	0.013 ± 0.002	LT 0.02
01/08/06	0.013 ± 0.002	LT 0.05
01/16/06	0.018 ± 0.002	LT 0.03
01/23/06	0.015 ± 0.002	LT 0.03
01/30/06	0.016 ± 0.002	LT 0.03
02/05/06	0.014 ± 0.002	LT 0.04
02/12/06	0.014 ± 0.002	LT 0.04
02/19/06	0.016 ± 0.002	LT 0.03
02/26/06	0.025 ± 0.002	LT 0.04
03/05/06	0.020 ± 0.002	LT 0.03
03/12/06	0.015 ± 0.002	LT 0.04
03/18/06	0.016 ± 0.002	LT 0.04
03/26/06	0.010 ± 0.002	LT 0.03
04/02/06	0.012 ± 0.002	LT 0.03
04/09/06	0.016 ± 0.002	LT 0.03
04/16/06	0.019 ± 0.002	LT 0.04
04/23/06	0.010 ± 0.002	LT 0.04
04/30/06	0.015 ± 0.002	LT 0.03
05/07/06	0.013 ± 0.002	LT 0.04
05/14/06	0.012 ± 0.002	LT 0.04
05/21/06	0.007 ± 0.001	LT 0.03
05/28/06	0.015 ± 0.002	LT 0.03
06/04/06	0.015 ± 0.002	LT 0.03
06/11/06	0.014 ± 0.002	LT 0.03
06/18/06	0.014 ± 0.002	LT 0.04
06/25/06	0.014 ± 0.002	LT 0.06

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/02/06	0.015 ± 0.002	LT 0.04
07/09/06	0.018 ± 0.002	LT 0.04
07/16/06	0.017 ± 0.002	LT 0.04
07/23/06	0.017 ± 0.002	LT 0.04
07/30/06	0.024 ± 0.002	LT 0.04
08/06/06	0.018 ± 0.002	LT 0.04
08/13/06	0.016 ± 0.002	LT 0.03
08/20/06	0.021 ± 0.002	LT 0.04
08/27/06	0.022 ± 0.002	LT 0.03
09/04/06	0.015 ± 0.002	LT 0.03
09/10/06	0.022 ± 0.002	LT 0.04
09/17/06	0.018 ± 0.002	LT 0.04
09/24/06	0.014 ± 0.002	LT 0.03
10/01/06	0.012 ± 0.002	LT 0.03
10/08/06	0.016 ± 0.002	LT 0.05
10/15/06	0.012 ± 0.002	LT 0.03
10/22/06	0.017 ± 0.002	LT 0.03
10/29/06	0.012 ± 0.002	LT 0.04
11/05/06	0.019 ± 0.002	LT 0.04
11/12/06	0.021 ± 0.002	LT 0.04
11/19/06	0.021 ± 0.002	LT 0.05
11/26/06	0.023 ± 0.002	LT 0.04
12/05/06	0.022 ± 0.002	LT 0.02
12/10/06	0.025 ± 0.003	LT 0.06
12/17/06	0.028 ± 0.002	LT 0.04
12/26/06	0.019 ± 0.002	LT 0.02
12/31/06	0.028 ± 0.003	LT 0.05

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Palisades
2006
Covert Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/06	0.012 ± 0.001	LT 0.02
01/08/06	0.011 ± 0.002	LT 0.05
01/16/06	0.014 ± 0.002	LT 0.03
01/23/06	0.014 ± 0.002	LT 0.03
01/30/06	0.011 ± 0.002	LT 0.03
02/05/06	0.010 ± 0.002	LT 0.04
02/12/06	0.017 ± 0.002	LT 0.04
02/19/06	0.013 ± 0.002	LT 0.03
02/26/06	0.022 ± 0.002	LT 0.04
03/05/06	0.012 ± 0.002	LT 0.03
03/12/06	0.012 ± 0.002	LT 0.04
03/18/06	0.012 ± 0.002	LT 0.04
03/26/06	0.007 ± 0.001	LT 0.03
04/02/06	0.010 ± 0.002	LT 0.04
04/09/06	0.012 ± 0.002	LT 0.03
04/16/06	0.016 ± 0.002	LT 0.04
04/23/06	0.008 ± 0.002	LT 0.04
04/30/06	0.007 ± 0.001	LT 0.03
05/07/06	0.011 ± 0.002	LT 0.04
05/14/06	0.010 ± 0.002	LT 0.04
05/21/06	0.005 ± 0.001	LT 0.03
05/28/06	0.012 ± 0.002	LT 0.03
06/04/06	0.014 ± 0.002	LT 0.03
06/11/06	0.014 ± 0.002	LT 0.03
06/18/06	0.012 ± 0.002	LT 0.04
06/25/06	0.011 ± 0.002	LT 0.06

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/02/06	0.014 ± 0.002	LT 0.03
07/09/06	0.015 ± 0.002	LT 0.04
07/16/06	0.012 ± 0.002	LT 0.03
07/23/06	0.011 ± 0.002	LT 0.04
07/30/06	0.020 ± 0.002	LT 0.03
08/06/06	0.014 ± 0.002	LT 0.04
08/13/06	0.013 ± 0.002	LT 0.03
08/20/06	0.018 ± 0.002	LT 0.04
08/27/06	0.018 ± 0.002	LT 0.03
09/04/06	0.014 ± 0.002	LT 0.03
09/10/06	0.018 ± 0.002	LT 0.05
09/17/06	0.015 ± 0.002	LT 0.03
09/24/06	0.012 ± 0.002	LT 0.03
10/01/06	0.010 ± 0.002	LT 0.03
10/08/06	0.009 ± 0.002	LT 0.05
10/15/06	0.010 ± 0.002	LT 0.03
10/22/06	0.016 ± 0.002	LT 0.03
10/29/06	0.012 ± 0.002	LT 0.04
11/05/06	0.017 ± 0.002	LT 0.04
11/12/06	0.018 ± 0.002	LT 0.04
11/19/06	0.016 ± 0.002	LT 0.05
11/26/06	0.016 ± 0.002	LT 0.04
12/05/06	0.021 ± 0.003	LT 0.04
12/10/06	NS	NS
12/17/06	0.020 ± 0.002	LT 0.04
12/26/06	NS	NS
12/31/06	0.019 ± 0.003	LT 0.05

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
Palisades
2006
South Haven Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/06	0.013 ± 0.002	LT 0.02
01/08/06	0.010 ± 0.002	LT 0.05
01/16/06	0.017 ± 0.002	LT 0.03
01/23/06	0.015 ± 0.002	LT 0.03
01/30/06	0.015 ± 0.002	LT 0.03
02/05/06	0.013 ± 0.002	LT 0.04
02/12/06	0.014 ± 0.002	LT 0.04
02/19/06	0.015 ± 0.002	LT 0.04
02/26/06	0.024 ± 0.002	LT 0.04
03/05/06	0.016 ± 0.002	LT 0.03
03/12/06	0.011 ± 0.002	LT 0.04
03/18/06	0.016 ± 0.002	LT 0.04
03/26/06	0.009 ± 0.002	LT 0.03
04/02/06	0.012 ± 0.002	LT 0.03
04/09/06	0.013 ± 0.002	LT 0.03
04/16/06	0.017 ± 0.002	LT 0.04
04/23/06	0.010 ± 0.002	LT 0.04
04/30/06	0.013 ± 0.002	LT 0.03
05/07/06	0.013 ± 0.002	LT 0.04
05/14/06	0.011 ± 0.002	LT 0.04
05/21/06	0.007 ± 0.001	LT 0.03
05/28/06	0.016 ± 0.002	LT 0.03
06/04/06	0.015 ± 0.002	LT 0.03
06/11/06	0.013 ± 0.002	LT 0.03
06/18/06	0.016 ± 0.002	LT 0.04
06/25/06	0.014 ± 0.002	LT 0.06

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/02/06	0.018 ± 0.002	LT 0.03
07/09/06	0.031 ± 0.004	LT 0.07
07/16/06	0.022 ± 0.007	LT 0.02
07/23/06	0.020 ± 0.002	LT 0.04
07/30/06	0.025 ± 0.002	LT 0.04
08/06/06	0.019 ± 0.002	LT 0.04
08/13/06	0.017 ± 0.002	LT 0.03
08/20/06	0.023 ± 0.002	LT 0.04
08/27/06	0.024 ± 0.002	LT 0.03
09/04/06	0.017 ± 0.002	LT 0.03
09/10/06	0.045 ± 0.005	LT 0.08
09/17/06	NS	NS
09/24/06	0.013 ± 0.002	LT 0.04
10/01/06	0.013 ± 0.002	LT 0.03
10/08/06	0.018 ± 0.002	LT 0.05
10/15/06	0.012 ± 0.002	LT 0.03
10/22/06	0.018 ± 0.002	LT 0.03
10/29/06	0.012 ± 0.002	LT 0.04
11/05/06	0.020 ± 0.002	LT 0.04
11/12/06	0.024 ± 0.002	LT 0.04
11/19/06	0.020 ± 0.002	LT 0.05
11/26/06	0.022 ± 0.002	LT 0.04
12/05/06	0.021 ± 0.002	LT 0.02
12/10/06	0.026 ± 0.003	LT 0.05
12/17/06	0.030 ± 0.003	LT 0.04
12/26/06	0.021 ± 0.002	LT 0.02
12/31/06	0.030 ± 0.003	LT 0.05

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2006
Reactor Site Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/06	0.015 ± 0.002	LT 0.02
01/08/06	0.013 ± 0.002	LT 0.05
01/16/06	0.017 ± 0.002	LT 0.03
01/23/06	0.017 ± 0.002	LT 0.03
01/30/06	0.015 ± 0.002	LT 0.03
02/05/06	0.014 ± 0.002	LT 0.04
02/12/06	0.017 ± 0.002	LT 0.04
02/19/06	0.017 ± 0.002	LT 0.04
02/26/06	0.023 ± 0.002	LT 0.04
03/05/06	0.016 ± 0.002	LT 0.03
03/12/06	0.014 ± 0.002	LT 0.04
03/18/06	0.012 ± 0.002	LT 0.04
03/26/06	0.008 ± 0.002	LT 0.03
04/02/06	0.012 ± 0.002	LT 0.04
04/09/06	0.014 ± 0.002	LT 0.03
04/16/06	0.021 ± 0.002	LT 0.04
04/23/06	0.010 ± 0.002	LT 0.04
04/30/06	0.013 ± 0.002	LT 0.03
05/07/06	0.012 ± 0.002	LT 0.04
05/14/06	0.012 ± 0.002	LT 0.04
05/21/06	NS	NS
05/29/06	0.017 ± 0.002	LT 0.03
06/04/06	0.015 ± 0.002	LT 0.04
06/11/06	0.015 ± 0.002	LT 0.04
06/18/06	0.013 ± 0.002	LT 0.04
06/25/06	0.014 ± 0.002	LT 0.06

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/02/06	0.017 ± 0.002	LT 0.03
07/09/06	0.017 ± 0.002	LT 0.04
07/16/06	0.014 ± 0.002	LT 0.03
07/23/06	0.018 ± 0.002	LT 0.04
07/30/06	0.024 ± 0.002	LT 0.03
08/06/06	0.017 ± 0.002	LT 0.04
08/13/06	0.019 ± 0.002	LT 0.03
08/20/06	0.021 ± 0.002	LT 0.04
08/27/06	0.024 ± 0.002	LT 0.03
09/04/06	0.016 ± 0.002	LT 0.03
09/10/06	0.023 ± 0.002	LT 0.04
09/17/06	0.017 ± 0.002	LT 0.04
09/24/06	0.012 ± 0.002	LT 0.03
10/01/06	0.013 ± 0.002	LT 0.03
10/08/06	0.017 ± 0.002	LT 0.05
10/15/06	0.011 ± 0.002	LT 0.03
10/22/06	0.014 ± 0.002	LT 0.03
10/29/06	0.011 ± 0.002	LT 0.04
11/05/06	0.019 ± 0.002	LT 0.04
11/12/06	0.022 ± 0.002	LT 0.04
11/19/06	0.022 ± 0.002	LT 0.05
11/26/06	0.019 ± 0.002	LT 0.04
12/05/06	0.021 ± 0.002	LT 0.02
12/10/06	0.028 ± 0.003	LT 0.05
12/17/06	0.025 ± 0.002	LT 0.04
12/26/06	0.019 ± 0.002	LT 0.02
12/31/06	0.025 ± 0.003	LT 0.05

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2006
Bridgman Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/06	0.014 ± 0.002	LT 0.02
01/08/06	0.012 ± 0.002	LT 0.05
01/16/06	0.018 ± 0.002	LT 0.03
01/23/06	0.019 ± 0.002	LT 0.03
01/30/06	0.015 ± 0.002	LT 0.03
02/05/06	0.014 ± 0.002	LT 0.04
02/12/06	0.017 ± 0.002	LT 0.04
02/19/06	0.017 ± 0.002	LT 0.04
02/26/06	0.027 ± 0.002	LT 0.04
03/05/06	0.019 ± 0.002	LT 0.03
03/12/06	0.015 ± 0.002	LT 0.04
03/18/06	0.016 ± 0.002	LT 0.04
03/26/06	0.012 ± 0.002	LT 0.03
04/02/06	0.013 ± 0.002	LT 0.04
04/09/06	0.017 ± 0.002	LT 0.03
04/16/06	0.023 ± 0.002	LT 0.04
04/23/06	0.011 ± 0.002	LT 0.04
04/30/06	0.016 ± 0.002	LT 0.03
05/07/06	0.015 ± 0.002	LT 0.04
05/14/06	0.012 ± 0.002	LT 0.04
05/21/06	0.008 ± 0.002	LT 0.03
05/29/06	0.021 ± 0.002	LT 0.03
06/04/06	0.016 ± 0.002	LT 0.04
06/11/06	0.018 ± 0.002	LT 0.04
06/18/06	0.019 ± 0.002	LT 0.04
06/25/06	0.017 ± 0.002	LT 0.06

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/02/06	0.021 ± 0.002	LT 0.03
07/09/06	0.021 ± 0.002	LT 0.04
07/16/06	0.016 ± 0.002	LT 0.03
07/23/06	0.023 ± 0.002	LT 0.04
07/30/06	0.027 ± 0.002	LT 0.03
08/06/06	0.020 ± 0.002	LT 0.04
08/13/06	0.023 ± 0.002	LT 0.03
08/20/06	0.026 ± 0.002	LT 0.04
08/27/06	0.029 ± 0.002	LT 0.03
09/04/06	0.022 ± 0.002	LT 0.03
09/10/06	0.027 ± 0.003	LT 0.04
09/17/06	0.022 ± 0.002	LT 0.03
09/24/06	0.015 ± 0.002	LT 0.03
10/01/06	0.014 ± 0.002	LT 0.03
10/08/06	0.017 ± 0.002	LT 0.05
10/15/06	0.014 ± 0.002	LT 0.03
10/22/06	0.016 ± 0.002	LT 0.03
10/29/06	0.014 ± 0.002	LT 0.04
11/05/06	0.020 ± 0.002	LT 0.04
11/12/06	0.025 ± 0.002	LT 0.04
11/19/06	0.025 ± 0.002	LT 0.05
11/26/06	0.023 ± 0.002	LT 0.04
12/05/06	0.023 ± 0.002	LT 0.02
12/10/06	0.026 ± 0.003	LT 0.05
12/17/06	0.034 ± 0.003	LT 0.04
12/26/06	0.021 ± 0.002	LT 0.02
12/31/06	0.029 ± 0.003	LT 0.05

LT – Less Than

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2006
Stevensville Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/06	0.014 ± 0.002	LT 0.02
01/08/06	0.012 ± 0.002	LT 0.05
01/16/06	0.018 ± 0.002	LT 0.03
01/23/06	0.017 ± 0.002	LT 0.03
01/30/06	0.013 ± 0.002	LT 0.03
02/05/06	0.015 ± 0.002	LT 0.04
02/12/06	0.016 ± 0.002	LT 0.04
02/19/06	0.018 ± 0.002	LT 0.04
02/26/06	0.025 ± 0.002	LT 0.04
03/05/06	0.015 ± 0.002	LT 0.03
03/12/06	0.015 ± 0.002	LT 0.04
03/18/06	0.015 ± 0.002	LT 0.04
03/26/06	0.009 ± 0.002	LT 0.03
04/02/06	0.013 ± 0.002	LT 0.04
04/09/06	0.016 ± 0.002	LT 0.03
04/16/06	0.021 ± 0.002	LT 0.04
04/23/06	0.010 ± 0.002	LT 0.04
04/30/06	0.015 ± 0.002	LT 0.03
05/07/06	0.015 ± 0.002	LT 0.04
05/14/06	0.010 ± 0.002	LT 0.04
05/21/06	0.009 ± 0.002	LT 0.03
05/29/06	0.020 ± 0.002	LT 0.03
06/04/06	0.015 ± 0.002	LT 0.04
06/11/06	0.016 ± 0.002	LT 0.04
06/18/06	0.015 ± 0.002	LT 0.04
06/25/06	0.014 ± 0.002	LT 0.06

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/02/06	0.019 ± 0.002	LT 0.03
07/09/06	0.018 ± 0.002	LT 0.04
07/16/06	0.017 ± 0.002	LT 0.03
07/23/06	0.020 ± 0.002	LT 0.04
07/30/06	0.024 ± 0.002	LT 0.03
08/06/06	0.018 ± 0.002	LT 0.04
08/13/06	0.020 ± 0.002	LT 0.03
08/20/06	0.021 ± 0.002	LT 0.04
08/27/06	0.023 ± 0.002	LT 0.03
09/04/06	0.019 ± 0.002	LT 0.03
09/10/06	0.025 ± 0.003	LT 0.05
09/17/06	0.017 ± 0.002	LT 0.04
09/24/06	0.014 ± 0.002	LT 0.03
10/01/06	0.012 ± 0.002	LT 0.03
10/08/06	0.017 ± 0.002	LT 0.05
10/15/06	0.013 ± 0.002	LT 0.03
10/22/06	0.015 ± 0.002	LT 0.03
10/29/06	0.011 ± 0.002	LT 0.04
11/05/06	0.020 ± 0.002	LT 0.04
11/12/06	0.020 ± 0.002	LT 0.04
11/19/06	NS	NS
11/26/06	NS	NS
12/05/06	0.022 ± 0.002	LT 0.02
12/10/06	0.027 ± 0.003	LT 0.05
12/17/06	0.034 ± 0.003	LT 0.04
12/26/06	0.022 ± 0.002	LT 0.02
12/31/06	0.028 ± 0.003	LT 0.05

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2006
Livingston Road Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/06	0.013 ± 0.002	LT 0.02
01/08/06	0.012 ± 0.002	LT 0.05
01/16/06	0.019 ± 0.002	LT 0.03
01/23/06	0.018 ± 0.002	LT 0.03
01/30/06	0.013 ± 0.002	LT 0.03
02/05/06	0.014 ± 0.002	LT 0.04
02/12/06	0.015 ± 0.002	LT 0.04
02/19/06	0.015 ± 0.002	LT 0.04
02/26/06	0.023 ± 0.002	LT 0.04
03/05/06	0.017 ± 0.002	LT 0.03
03/12/06	0.012 ± 0.002	LT 0.04
03/18/06	0.014 ± 0.002	LT 0.04
03/26/06	0.010 ± 0.002	LT 0.03
04/02/06	0.011 ± 0.002	LT 0.04
04/09/06	0.014 ± 0.002	LT 0.03
04/16/06	0.018 ± 0.002	LT 0.04
04/23/06	0.010 ± 0.002	LT 0.04
04/30/06	0.015 ± 0.002	LT 0.03
05/07/06	0.010 ± 0.002	LT 0.04
05/14/06	0.013 ± 0.002	LT 0.04
05/21/06	0.008 ± 0.002	LT 0.03
05/29/06	0.018 ± 0.002	LT 0.03
06/04/06	0.013 ± 0.002	LT 0.04
06/11/06	0.014 ± 0.002	LT 0.04
06/18/06	0.015 ± 0.002	LT 0.04
06/25/06	0.015 ± 0.002	LT 0.06

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/02/06	0.018 ± 0.002	LT 0.03
07/09/06	0.019 ± 0.002	LT 0.04
07/16/06	NS	NS
07/23/06	0.017 ± 0.002	LT 0.04
07/30/06	0.025 ± 0.002	LT 0.04
08/06/06	0.019 ± 0.002	LT 0.04
08/13/06	0.020 ± 0.002	LT 0.03
08/20/06	0.022 ± 0.002	LT 0.04
08/27/06	0.023 ± 0.002	LT 0.03
09/04/06	0.018 ± 0.002	LT 0.03
09/10/06	0.023 ± 0.002	LT 0.04
09/17/06	0.013 ± 0.002	LT 0.03
09/24/06	0.011 ± 0.002	LT 0.03
10/01/06	0.011 ± 0.002	LT 0.03
10/08/06	0.015 ± 0.002	LT 0.05
10/15/06	0.012 ± 0.002	LT 0.03
10/22/06	0.013 ± 0.002	LT 0.06
10/29/06	0.012 ± 0.002	LT 0.04
11/05/06	0.020 ± 0.002	LT 0.04
11/12/06	0.020 ± 0.002	LT 0.04
11/19/06	0.023 ± 0.002	LT 0.05
11/26/06	0.017 ± 0.002	LT 0.04
12/05/06	0.021 ± 0.002	LT 0.02
12/10/06	0.028 ± 0.003	LT 0.05
12/17/06	0.033 ± 0.003	LT 0.04
12/26/06	0.022 ± 0.002	LT 0.02
12/31/06	0.027 ± 0.003	LT 0.05

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2006
Peddy Farm Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/06	0.014 ± 0.002	LT 0.02
01/08/06	0.012 ± 0.002	LT 0.05
01/16/06	0.019 ± 0.002	LT 0.03
01/23/06	0.016 ± 0.002	LT 0.03
01/30/06	0.012 ± 0.002	LT 0.03
02/05/06	0.014 ± 0.002	LT 0.04
02/12/06	0.015 ± 0.002	LT 0.04
02/19/06	0.018 ± 0.002	LT 0.04
02/26/06	0.027 ± 0.002	LT 0.04
03/05/06	0.017 ± 0.002	LT 0.03
03/12/06	0.015 ± 0.002	LT 0.04
03/18/06	0.017 ± 0.002	LT 0.04
03/26/06	0.010 ± 0.002	LT 0.03
04/02/06	0.014 ± 0.002	LT 0.04
04/09/06	0.018 ± 0.002	LT 0.03
04/16/06	0.020 ± 0.002	LT 0.04
04/23/06	0.011 ± 0.002	LT 0.04
04/30/06	0.015 ± 0.002	LT 0.03
05/07/06	0.014 ± 0.002	LT 0.04
05/14/06	0.010 ± 0.002	LT 0.04
05/21/06	0.009 ± 0.002	LT 0.03
05/29/06	0.021 ± 0.002	LT 0.03
06/04/06	0.014 ± 0.002	LT 0.04
06/11/06	0.015 ± 0.002	LT 0.04
06/18/06	0.014 ± 0.002	LT 0.04
06/25/06	0.014 ± 0.002	LT 0.06

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/02/06	0.017 ± 0.002	LT 0.03
07/09/06	0.020 ± 0.002	LT 0.04
07/16/06	0.016 ± 0.002	LT 0.04
07/23/06	0.021 ± 0.002	LT 0.04
07/30/06	0.024 ± 0.002	LT 0.04
08/06/06	0.019 ± 0.002	LT 0.04
08/13/06	0.021 ± 0.002	LT 0.03
08/20/06	0.022 ± 0.002	LT 0.04
08/27/06	0.025 ± 0.002	LT 0.03
09/04/06	0.019 ± 0.002	LT 0.03
09/10/06	0.025 ± 0.003	LT 0.04
09/17/06	0.017 ± 0.002	LT 0.04
09/24/06	0.013 ± 0.002	LT 0.03
10/01/06	0.014 ± 0.002	LT 0.03
10/08/06	0.016 ± 0.002	LT 0.05
10/15/06	0.013 ± 0.002	LT 0.03
10/22/06	0.016 ± 0.002	LT 0.03
10/29/06	0.011 ± 0.002	LT 0.04
11/05/06	0.021 ± 0.002	LT 0.04
11/12/06	0.024 ± 0.002	LT 0.04
11/19/06	0.024 ± 0.002	LT 0.05
11/26/06	0.020 ± 0.002	LT 0.04
12/05/06	0.022 ± 0.002	LT 0.02
12/10/06	0.026 ± 0.003	LT 0.05
12/17/06	0.028 ± 0.002	LT 0.04
12/26/06	0.022 ± 0.002	LT 0.02
12/31/06	0.028 ± 0.003	LT 0.05

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Fermi 2
2006
Reactor Site Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/05/06	0.017 ± 0.002	LT 0.04
01/12/06	0.016 ± 0.002	LT 0.04
01/19/06	0.017 ± 0.002	LT 0.03
01/26/06	0.021 ± 0.002	LT 0.04
02/02/06	0.021 ± 0.002	LT 0.04
02/09/06	0.023 ± 0.002	LT 0.04
02/16/06	0.023 ± 0.002	LT 0.04
02/23/06	0.029 ± 0.002	LT 0.04
03/02/06	0.021 ± 0.002	LT 0.04
03/09/06	0.017 ± 0.002	LT 0.05
03/16/06	0.016 ± 0.002	LT 0.04
03/23/06	0.015 ± 0.002	LT 0.04
03/30/06	0.010 ± 0.002	LT 0.04
04/06/06	0.016 ± 0.002	LT 0.04
04/13/06	0.021 ± 0.002	LT 0.05
04/20/06	0.012 ± 0.002	LT 0.03
04/27/06	0.015 ± 0.002	LT 0.04
05/04/06	0.020 ± 0.002	LT 0.04
05/11/06	0.011 ± 0.002	LT 0.04
05/18/06	0.010 ± 0.002	LT 0.04
05/25/06	0.014 ± 0.002	LT 0.04
06/01/06	0.023 ± 0.002	LT 0.04
06/08/06	0.019 ± 0.002	LT 0.04
06/14/06	0.012 ± 0.002	LT 0.05
06/22/06	0.020 ± 0.002	LT 0.06
06/30/06	0.010 ± 0.003	LT 0.08

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/06/06	0.021 ± 0.002	LT 0.05
07/14/06	0.017 ± 0.002	LT 0.03
07/20/06	0.020 ± 0.002	LT 0.05
07/27/06	0.021 ± 0.002	LT 0.04
08/03/06	0.017 ± 0.002	LT 0.03
08/10/06	0.018 ± 0.002	LT 0.04
08/17/06	0.016 ± 0.002	LT 0.04
08/24/06	0.025 ± 0.002	LT 0.04
08/31/06	0.026 ± 0.002	LT 0.04
09/07/06	0.017 ± 0.002	LT 0.04
09/13/06	0.026 ± 0.003	LT 0.05
09/21/06	0.015 ± 0.002	LT 0.03
09/28/06	0.019 ± 0.002	LT 0.04
10/05/06	0.019 ± 0.002	LT 0.04
10/12/06	0.013 ± 0.002	LT 0.04
10/19/06	0.016 ± 0.002	LT 0.04
10/26/06	0.016 ± 0.002	LT 0.04
11/02/06	0.019 ± 0.002	LT 0.04
11/09/06	0.028 ± 0.002	LT 0.04
11/16/06	0.015 ± 0.002	LT 0.04
11/23/06	0.018 ± 0.002	LT 0.04
11/30/06	0.024 ± 0.002	LT 0.04
12/07/06	0.028 ± 0.002	LT 0.04
12/14/06	0.033 ± 0.003	LT 0.04
12/21/06	0.024 ± 0.002	LT 0.04
12/29/06	0.023 ± 0.002	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Fermi 2
2006
Pointe Aux Peaux Road Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/05/06	0.015 ± 0.002	LT 0.04
01/12/06	0.018 ± 0.002	LT 0.04
01/19/06	0.016 ± 0.002	LT 0.03
01/26/06	0.017 ± 0.002	LT 0.04
02/02/06	0.022 ± 0.002	LT 0.04
02/09/06	0.014 ± 0.002	LT 0.04
02/16/06	0.018 ± 0.002	LT 0.04
02/23/06	0.023 ± 0.002	LT 0.04
03/02/06	0.018 ± 0.002	LT 0.04
03/09/06	0.014 ± 0.002	LT 0.05
03/16/06	0.015 ± 0.002	LT 0.04
03/23/06	0.018 ± 0.002	LT 0.04
03/30/06	0.011 ± 0.002	LT 0.04
04/06/06	0.016 ± 0.002	LT 0.04
04/13/06	0.018 ± 0.002	LT 0.05
04/20/06	0.012 ± 0.002	LT 0.03
04/27/06	0.015 ± 0.002	LT 0.04
05/04/06	0.018 ± 0.002	LT 0.04
05/11/06	0.013 ± 0.002	LT 0.04
05/18/06	0.009 ± 0.002	LT 0.04
05/25/06	0.013 ± 0.002	LT 0.04
06/01/06	0.021 ± 0.002	LT 0.04
06/08/06	0.017 ± 0.002	LT 0.04
06/14/06	0.010 ± 0.002	LT 0.05
06/22/06	0.020 ± 0.002	LT 0.06
06/30/06	0.017 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/06/06	0.024 ± 0.002	LT 0.04
07/14/06	0.017 ± 0.002	LT 0.03
07/20/06	0.021 ± 0.002	LT 0.05
07/27/06	0.022 ± 0.002	LT 0.04
08/03/06	0.019 ± 0.002	LT 0.03
08/10/06	0.021 ± 0.002	LT 0.04
08/17/06	0.018 ± 0.002	LT 0.04
08/24/06	0.025 ± 0.002	LT 0.04
08/31/06	0.025 ± 0.002	LT 0.04
09/07/06	0.018 ± 0.002	LT 0.04
09/13/06	0.024 ± 0.003	LT 0.05
09/21/06	0.015 ± 0.002	LT 0.03
09/28/06	0.020 ± 0.002	LT 0.04
10/05/06	0.020 ± 0.002	LT 0.04
10/12/06	0.013 ± 0.002	LT 0.04
10/19/06	0.017 ± 0.002	LT 0.04
10/26/06	0.015 ± 0.002	LT 0.04
11/02/06	0.018 ± 0.002	LT 0.04
11/09/06	0.025 ± 0.002	LT 0.04
11/16/06	0.014 ± 0.002	LT 0.04
11/23/06	0.020 ± 0.002	LT 0.04
11/30/06	0.022 ± 0.002	LT 0.04
12/07/06	0.028 ± 0.002	LT 0.04
12/14/06	0.031 ± 0.003	LT 0.04
12/21/06	0.022 ± 0.002	LT 0.04
12/29/06	0.023 ± 0.002	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Fermi 2
2006
Nadeau Road Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/05/06	0.014 ± 0.002	LT 0.04
01/12/06	0.013 ± 0.002	LT 0.04
01/19/06	0.013 ± 0.002	LT 0.03
01/26/06	0.016 ± 0.002	LT 0.04
02/02/06	0.018 ± 0.002	LT 0.04
02/09/06	0.013 ± 0.002	LT 0.04
02/16/06	0.015 ± 0.002	LT 0.04
02/23/06	0.023 ± 0.002	LT 0.04
03/02/06	0.016 ± 0.002	LT 0.04
03/09/06	0.010 ± 0.002	LT 0.05
03/16/06	0.014 ± 0.002	LT 0.04
03/23/06	0.013 ± 0.002	LT 0.04
03/30/06	0.008 ± 0.002	LT 0.04
04/06/06	0.011 ± 0.002	LT 0.04
04/13/06	0.017 ± 0.002	LT 0.05
04/20/06	0.010 ± 0.002	LT 0.03
04/27/06	0.012 ± 0.002	LT 0.04
05/04/06	0.014 ± 0.002	LT 0.04
05/11/06	0.012 ± 0.002	LT 0.04
05/18/06	0.008 ± 0.002	LT 0.04
05/25/06	0.011 ± 0.002	LT 0.04
06/01/06	0.018 ± 0.002	LT 0.04
06/08/06	0.015 ± 0.002	LT 0.04
06/14/06	0.009 ± 0.002	LT 0.05
06/22/06	0.015 ± 0.002	LT 0.06
06/30/06	0.015 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/06/06	0.018 ± 0.002	LT 0.04
07/14/06	0.017 ± 0.002	LT 0.03
07/20/06	0.016 ± 0.002	LT 0.05
07/27/06	0.018 ± 0.002	LT 0.04
08/03/06	0.014 ± 0.001	LT 0.03
08/10/06	0.017 ± 0.002	LT 0.04
08/17/06	0.013 ± 0.002	LT 0.04
08/24/06	0.021 ± 0.002	LT 0.04
08/31/06	0.024 ± 0.002	LT 0.04
09/07/06	0.014 ± 0.002	LT 0.04
09/13/06	0.019 ± 0.002	LT 0.05
09/21/06	0.014 ± 0.002	LT 0.03
09/28/06	0.018 ± 0.002	LT 0.04
10/05/06	0.014 ± 0.002	LT 0.04
10/12/06	0.006 ± 0.002	LT 0.04
10/19/06	0.012 ± 0.002	LT 0.04
10/26/06	0.012 ± 0.002	LT 0.04
11/02/06	0.014 ± 0.002	LT 0.04
11/09/06	0.021 ± 0.002	LT 0.04
11/16/06	0.012 ± 0.002	LT 0.04
11/23/06	0.014 ± 0.002	LT 0.04
11/30/06	NS	NS
12/07/06	NS	NS
12/14/06	0.019 ± 0.003	LT 0.08
12/21/06	0.033 ± 0.004	LT 0.09
12/29/06	0.010 ± 0.002	LT 0.07

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
Fermi 2
2006
Dixie Highway Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/05/06	0.017 ± 0.002	LT 0.04
01/12/06	0.017 ± 0.002	LT 0.04
01/19/06	0.014 ± 0.002	LT 0.03
01/26/06	0.018 ± 0.002	LT 0.04
02/02/06	0.020 ± 0.002	LT 0.04
02/09/06	0.015 ± 0.002	LT 0.04
02/16/06	0.019 ± 0.002	LT 0.04
02/23/06	0.024 ± 0.002	LT 0.04
03/02/06	0.019 ± 0.002	LT 0.04
03/09/06	0.014 ± 0.002	LT 0.05
03/16/06	0.016 ± 0.002	LT 0.04
03/23/06	0.013 ± 0.002	LT 0.04
03/30/06	0.010 ± 0.002	LT 0.04
04/06/06	0.012 ± 0.002	LT 0.04
04/13/06	0.018 ± 0.002	LT 0.05
04/20/06	0.011 ± 0.002	LT 0.03
04/27/06	0.014 ± 0.002	LT 0.04
05/04/06	0.019 ± 0.002	LT 0.04
05/11/06	0.013 ± 0.002	LT 0.04
05/18/06	0.009 ± 0.002	LT 0.04
05/25/06	0.005 ± 0.002	LT 0.07
06/01/06	NS	NS
06/08/06	0.020 ± 0.002	LT 0.04
06/14/06	0.012 ± 0.002	LT 0.05
06/22/06	0.018 ± 0.002	LT 0.06
06/30/06	0.016 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/06/06	0.022 ± 0.002	LT 0.04
07/14/06	0.019 ± 0.002	LT 0.03
07/20/06	0.020 ± 0.002	LT 0.05
07/27/06	0.019 ± 0.002	LT 0.04
08/03/06	0.017 ± 0.002	LT 0.03
08/10/06	0.020 ± 0.002	LT 0.04
08/17/06	0.015 ± 0.002	LT 0.04
08/24/06	0.024 ± 0.002	LT 0.04
08/31/06	0.027 ± 0.002	LT 0.04
09/07/06	0.018 ± 0.002	LT 0.04
09/13/06	0.023 ± 0.003	LT 0.05
09/21/06	0.014 ± 0.002	LT 0.03
09/28/06	0.019 ± 0.002	LT 0.04
10/05/06	0.018 ± 0.002	LT 0.04
10/12/06	0.014 ± 0.002	LT 0.04
10/19/06	0.016 ± 0.002	LT 0.04
10/26/06	0.016 ± 0.002	LT 0.04
11/02/06	0.019 ± 0.002	LT 0.04
11/09/06	0.027 ± 0.002	LT 0.04
11/16/06	0.016 ± 0.002	LT 0.04
11/23/06	0.018 ± 0.002	LT 0.04
11/30/06	0.026 ± 0.002	LT 0.04
12/07/06	0.028 ± 0.003	LT 0.04
12/14/06	0.033 ± 0.003	LT 0.04
12/21/06	0.027 ± 0.002	LT 0.04
12/29/06	0.024 ± 0.002	LT 0.04

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
Fermi 2
2006
Fix Farm Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/05/06	0.017 ± 0.002	LT 0.04
01/12/06	0.017 ± 0.002	LT 0.04
01/19/06	0.016 ± 0.002	LT 0.03
01/26/06	0.018 ± 0.002	LT 0.04
02/02/06	0.017 ± 0.002	LT 0.04
02/09/06	0.013 ± 0.002	LT 0.04
02/16/06	0.021 ± 0.002	LT 0.04
02/23/06	0.028 ± 0.002	LT 0.04
03/02/06	0.020 ± 0.002	LT 0.04
03/09/06	0.013 ± 0.002	LT 0.05
03/16/06	0.015 ± 0.002	LT 0.04
03/23/06	0.014 ± 0.002	LT 0.04
03/30/06	0.009 ± 0.002	LT 0.04
04/06/06	0.013 ± 0.002	LT 0.04
04/13/06	0.021 ± 0.002	LT 0.05
04/20/06	0.011 ± 0.002	LT 0.03
04/27/06	0.014 ± 0.002	LT 0.04
05/04/06	0.015 ± 0.002	LT 0.04
05/11/06	0.013 ± 0.002	LT 0.04
05/18/06	0.010 ± 0.002	LT 0.04
05/25/06	0.011 ± 0.002	LT 0.04
06/01/06	0.022 ± 0.002	LT 0.04
06/08/06	0.016 ± 0.002	LT 0.04
06/14/06	0.010 ± 0.002	LT 0.05
06/22/06	0.017 ± 0.002	LT 0.06
06/30/06	0.015 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/06/06	0.019 ± 0.002	LT 0.05
07/14/06	0.017 ± 0.002	LT 0.03
07/20/06	0.023 ± 0.002	LT 0.05
07/27/06	0.021 ± 0.002	LT 0.04
08/03/06	0.019 ± 0.002	LT 0.03
08/10/06	0.019 ± 0.002	LT 0.04
08/17/06	0.016 ± 0.002	LT 0.04
08/24/06	0.024 ± 0.002	LT 0.04
08/31/06	0.025 ± 0.002	LT 0.04
09/07/06	0.017 ± 0.002	LT 0.04
09/13/06	0.023 ± 0.003	LT 0.05
09/21/06	0.017 ± 0.002	LT 0.03
09/28/06	0.018 ± 0.002	LT 0.04
10/05/06	0.018 ± 0.002	LT 0.04
10/12/06	0.013 ± 0.002	LT 0.04
10/19/06	0.016 ± 0.002	LT 0.04
10/26/06	0.015 ± 0.002	LT 0.04
11/02/06	0.019 ± 0.002	LT 0.04
11/09/06	0.027 ± 0.002	LT 0.04
11/16/06	0.015 ± 0.002	LT 0.04
11/23/06	0.018 ± 0.002	LT 0.04
11/30/06	0.024 ± 0.002	LT 0.04
12/07/06	0.030 ± 0.003	LT 0.04
12/14/06	0.032 ± 0.003	LT 0.04
12/21/06	0.023 ± 0.002	LT 0.04
12/29/06	0.025 ± 0.002	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
2006
Lansing Background Reference Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/06	0.013 ± 0.002	LT 0.03
01/09/06	0.014 ± 0.002	LT 0.03
01/17/06	0.016 ± 0.002	LT 0.02
01/23/06	0.014 ± 0.002	LT 0.03
01/30/06	0.016 ± 0.002	LT 0.02
02/06/06	0.012 ± 0.002	LT 0.03
02/13/06	0.013 ± 0.002	LT 0.03
02/21/06	0.021 ± 0.002	LT 0.02
02/27/06	0.023 ± 0.002	LT 0.03
03/06/06	0.014 ± 0.002	LT 0.03
03/13/06	0.015 ± 0.002	LT 0.03
03/20/06	0.016 ± 0.002	LT 0.02
03/27/06	0.010 ± 0.002	LT 0.02
04/03/06	0.013 ± 0.002	LT 0.02
04/10/06	0.017 ± 0.002	LT 0.02
04/17/06	0.018 ± 0.002	LT 0.03
04/24/06	0.009 ± 0.002	LT 0.03
05/01/06	0.015 ± 0.002	LT 0.02
05/08/06	0.020 ± 0.002	LT 0.03
05/15/06	0.012 ± 0.002	LT 0.02
05/22/06	0.009 ± 0.002	LT 0.02
05/30/06	0.023 ± 0.002	LT 0.02
06/05/06	0.024 ± 0.002	LT 0.03
06/12/06	0.017 ± 0.002	LT 0.02
06/19/06	0.018 ± 0.002	LT 0.02
06/26/06	0.012 ± 0.002	LT 0.03

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/03/06	0.024 ± 0.002	LT 0.03
07/10/06	0.018 ± 0.002	LT 0.02
07/17/06	0.020 ± 0.002	LT 0.02
07/24/06	0.017 ± 0.002	LT 0.02
07/31/06	0.026 ± 0.002	LT 0.03
08/07/06	0.021 ± 0.002	LT 0.03
08/14/06	0.018 ± 0.002	LT 0.03
08/21/06	0.024 ± 0.002	LT 0.02
08/28/06	0.024 ± 0.002	LT 0.03
09/05/06	0.015 ± 0.002	LT 0.02
09/11/06	0.020 ± 0.002	LT 0.03
09/18/06	0.019 ± 0.002	LT 0.03
09/25/06	0.012 ± 0.002	LT 0.03
10/02/06	0.015 ± 0.002	LT 0.03
10/09/06	0.018 ± 0.002	LT 0.03
10/16/06	0.011 ± 0.002	LT 0.03
10/23/06	0.017 ± 0.002	LT 0.02
10/30/06	0.011 ± 0.002	LT 0.03
11/06/06	0.022 ± 0.002	LT 0.03
11/13/06	0.016 ± 0.002	LT 0.03
11/20/06	0.020 ± 0.002	LT 0.03
11/27/06	0.024 ± 0.002	LT 0.03
12/04/06	0.019 ± 0.002	LT 0.03
12/11/06	0.027 ± 0.003	LT 0.03
12/18/06	0.031 ± 0.003	LT 0.03
12/27/06	0.021 ± 0.002	LT 0.02

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Palisades
2007
Reactor Site Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/08/07	0.015 ± 0.002	LT 0.03
01/14/07	0.013 ± 0.002	LT 0.04
01/21/07	0.018 ± 0.002	LT 0.03
01/27/07	0.027 ± 0.003	LT 0.04
02/04/07	0.019 ± 0.002	LT 0.03
02/13/07	0.019 ± 0.002	LT 0.02
02/18/07	0.018 ± 0.003	LT 0.05
02/25/07	0.019 ± 0.002	LT 0.04
03/04/07	0.009 ± 0.002	LT 0.04
03/12/07	0.019 ± 0.002	LT 0.03
03/18/07	0.018 ± 0.002	LT 0.04
03/25/07	0.026 ± 0.004	LT 0.07
04/01/07	NS	NS
04/08/07	NS	NS
04/15/07	0.014 ± 0.002	LT 0.04
04/22/07	0.016 ± 0.002	LT 0.04
04/29/07	0.016 ± 0.002	LT 0.04
05/06/07	0.015 ± 0.002	LT 0.04
05/13/07	0.015 ± 0.002	LT 0.04
05/20/07	0.021 ± 0.002	LT 0.04
05/27/07	0.020 ± 0.002	LT 0.04
06/03/07	0.025 ± 0.002	LT 0.04
06/10/07	0.015 ± 0.002	LT 0.04
06/17/07	0.025 ± 0.002	LT 0.03
06/24/07	0.022 ± 0.002	LT 0.03
07/01/07	0.019 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/09/07	0.020 ± 0.002	LT 0.03
07/15/07	0.015 ± 0.002	LT 0.04
07/22/07	0.015 ± 0.002	LT 0.04
07/29/07	0.026 ± 0.002	LT 0.03
08/04/07	0.027 ± 0.003	LT 0.05
08/12/07	0.021 ± 0.002	LT 0.03
08/19/07	0.014 ± 0.002	LT 0.04
08/26/07	0.012 ± 0.002	LT 0.03
09/03/07	0.025 ± 0.002	LT 0.03
09/09/07	0.032 ± 0.003	LT 0.04
09/16/07	0.011 ± 0.002	LT 0.03
09/24/07	0.031 ± 0.002	LT 0.03
09/30/07	0.016 ± 0.002	LT 0.05
10/08/07	0.025 ± 0.002	LT 0.03
10/14/07	0.011 ± 0.002	LT 0.04
10/21/07	0.029 ± 0.003	LT 0.04
10/28/07	0.015 ± 0.002	LT 0.03
11/04/07	0.026 ± 0.002	LT 0.04
11/11/07	0.017 ± 0.002	LT 0.04
11/18/07	0.028 ± 0.002	LT 0.05
11/25/07	0.021 ± 0.002	LT 0.04
12/02/07	0.032 ± 0.003	LT 0.03
12/09/07	0.024 ± 0.002	LT 0.04
12/18/07	0.031 ± 0.002	LT 0.02
12/23/07	0.039 ± 0.004	LT 0.05
12/30/06	0.034 ± 0.003	LT 0.03

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
Palisades
2007
Covert Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/08/07	0.011 ± 0.002	LT 0.03
01/14/07	0.011 ± 0.002	LT 0.04
01/21/07	0.013 ± 0.002	LT 0.03
01/27/07	0.021 ± 0.002	LT 0.04
02/04/07	0.017 ± 0.002	LT 0.03
02/13/07	0.016 ± 0.002	LT 0.02
02/18/07	0.017 ± 0.003	LT 0.06
02/25/07	0.016 ± 0.002	LT 0.04
03/04/07	0.009 ± 0.002	LT 0.04
03/12/07	0.015 ± 0.002	LT 0.03
03/18/07	0.017 ± 0.002	LT 0.05
03/25/07	0.013 ± 0.002	LT 0.04
04/01/07	0.012 ± 0.002	LT 0.04
04/08/07	0.009 ± 0.002	LT 0.03
04/15/07	0.009 ± 0.002	LT 0.04
04/22/07	0.012 ± 0.002	LT 0.04
04/29/07	0.010 ± 0.002	LT 0.04
05/06/07	0.010 ± 0.002	LT 0.04
05/13/07	0.011 ± 0.002	LT 0.04
05/20/07	0.015 ± 0.002	LT 0.04
05/27/07	0.012 ± 0.002	LT 0.04
06/03/07	0.014 ± 0.002	LT 0.04
06/10/07	0.012 ± 0.002	LT 0.04
06/17/07	0.019 ± 0.002	LT 0.04
06/24/07	0.016 ± 0.002	LT 0.03
07/01/07	0.031 ± 0.004	LT 0.08

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/09/07	0.014 ± 0.002	LT 0.03
07/15/07	0.011 ± 0.002	LT 0.04
07/22/07	0.010 ± 0.002	LT 0.04
07/29/07	0.019 ± 0.002	LT 0.04
08/04/07	0.017 ± 0.002	LT 0.05
08/12/07	0.016 ± 0.002	LT 0.03
08/19/07	0.012 ± 0.002	LT 0.04
08/26/07	0.009 ± 0.002	LT 0.03
09/03/07	0.016 ± 0.002	LT 0.03
09/09/07	0.024 ± 0.003	LT 0.04
09/16/07	0.007 ± 0.002	LT 0.03
09/24/07	0.023 ± 0.002	LT 0.03
09/30/07	0.011 ± 0.002	LT 0.05
10/08/07	0.019 ± 0.002	LT 0.03
10/14/07	0.008 ± 0.002	LT 0.04
10/21/07	0.020 ± 0.002	LT 0.04
10/28/07	0.011 ± 0.002	LT 0.04
11/04/07	0.022 ± 0.002	LT 0.04
11/11/07	0.010 ± 0.002	LT 0.04
11/18/07	0.020 ± 0.002	LT 0.05
11/25/07	0.018 ± 0.002	LT 0.04
12/02/07	0.024 ± 0.002	LT 0.03
12/09/07	0.016 ± 0.002	LT 0.04
12/18/07	0.024 ± 0.002	LT 0.03
12/23/07	0.031 ± 0.003	LT 0.05
12/30/06	0.027 ± 0.002	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Palisades
2007
South Haven Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/08/07	0.015 ± 0.002	LT 0.03
01/14/07	0.015 ± 0.002	LT 0.04
01/21/07	0.017 ± 0.002	LT 0.03
01/27/07	NS	NS
02/04/07	NS	NS
02/13/07	NS	NS
02/18/07	NS	NS
02/25/07	NS	NS
03/04/07	NS	NS
03/12/07	NS	NS
03/18/07	0.015 ± 0.002	LT 0.04
03/25/07	0.016 ± 0.002	LT 0.04
04/01/07	0.018 ± 0.002	LT 0.03
04/08/07	0.012 ± 0.002	LT 0.03
04/15/07	0.014 ± 0.002	LT 0.04
04/22/07	0.016 ± 0.002	LT 0.04
04/29/07	0.013 ± 0.002	LT 0.04
05/06/07	0.016 ± 0.002	LT 0.04
05/13/07	0.010 ± 0.002	LT 0.04
05/23/07	0.021 ± 0.002	LT 0.02
05/27/07	0.017 ± 0.003	LT 0.06
06/03/07	0.022 ± 0.002	LT 0.04
06/10/07	0.014 ± 0.002	LT 0.04
06/17/07	0.028 ± 0.002	LT 0.03
06/24/07	0.019 ± 0.002	LT 0.03
07/01/07	0.016 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/09/07	0.020 ± 0.002	LT 0.03
07/15/07	0.013 ± 0.002	LT 0.04
07/22/07	0.012 ± 0.002	LT 0.04
07/29/07	0.024 ± 0.002	LT 0.03
08/04/07	0.024 ± 0.003	LT 0.05
08/12/07	0.022 ± 0.002	LT 0.03
08/19/07	0.015 ± 0.002	LT 0.04
08/26/07	0.012 ± 0.002	LT 0.03
09/03/07	0.024 ± 0.002	LT 0.03
09/09/07	0.030 ± 0.003	LT 0.04
09/16/07	0.009 ± 0.002	LT 0.03
09/24/07	0.029 ± 0.002	LT 0.03
09/30/07	0.014 ± 0.002	LT 0.05
10/08/07	0.026 ± 0.002	LT 0.03
10/14/07	0.010 ± 0.002	LT 0.04
10/21/07	0.026 ± 0.002	LT 0.04
10/28/07	0.017 ± 0.002	LT 0.03
11/04/07	0.024 ± 0.002	LT 0.04
11/11/07	0.016 ± 0.002	LT 0.04
11/18/07	0.024 ± 0.002	LT 0.05
11/25/07	0.023 ± 0.002	LT 0.03
12/02/07	0.031 ± 0.003	LT 0.03
12/09/07	0.023 ± 0.002	LT 0.04
12/18/07	0.029 ± 0.002	LT 0.02
12/23/07	0.040 ± 0.004	LT 0.05
12/30/06	0.032 ± 0.002	LT 0.03

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2007
Reactor Site Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/08/07	0.015 ± 0.002	LT 0.03
01/14/07	NS	NS
01/21/07	0.017 ± 0.001	LT 0.02
01/27/07	0.026 ± 0.003	LT 0.04
02/04/07	0.025 ± 0.002	LT 0.03
02/13/07	0.018 ± 0.002	LT 0.02
02/18/07	0.019 ± 0.003	LT 0.05
02/25/07	0.018 ± 0.002	LT 0.04
03/04/07	0.012 ± 0.002	LT 0.03
03/12/07	0.019 ± 0.002	LT 0.03
03/18/07	0.017 ± 0.002	LT 0.04
03/25/07	0.014 ± 0.002	LT 0.04
04/01/07	0.014 ± 0.002	LT 0.03
04/08/07	0.012 ± 0.002	LT 0.03
04/15/07	0.014 ± 0.002	LT 0.04
04/22/07	0.013 ± 0.002	LT 0.04
04/29/07	0.011 ± 0.002	LT 0.04
05/06/07	0.015 ± 0.002	LT 0.04
05/13/07	0.013 ± 0.002	LT 0.04
05/20/07	0.016 ± 0.002	LT 0.04
05/27/07	0.018 ± 0.002	LT 0.04
06/03/07	0.023 ± 0.002	LT 0.04
06/10/07	0.015 ± 0.002	LT 0.04
06/17/07	0.021 ± 0.002	LT 0.04
06/24/07	0.017 ± 0.002	LT 0.03
07/01/07	0.017 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/09/07	0.017 ± 0.002	LT 0.03
07/15/07	0.013 ± 0.002	LT 0.04
07/22/07	0.013 ± 0.002	LT 0.04
07/29/07	0.021 ± 0.002	LT 0.03
08/04/07	0.020 ± 0.002	LT 0.05
08/12/07	0.018 ± 0.002	LT 0.03
08/19/07	0.015 ± 0.002	LT 0.04
08/26/07	0.013 ± 0.002	LT 0.03
09/03/07	0.022 ± 0.002	LT 0.03
09/09/07	0.029 ± 0.003	LT 0.04
09/16/07	0.011 ± 0.002	LT 0.03
09/24/07	0.032 ± 0.003	LT 0.03
09/30/07	0.013 ± 0.002	LT 0.05
10/08/07	0.024 ± 0.002	LT 0.03
10/14/07	0.011 ± 0.002	LT 0.04
10/21/07	0.024 ± 0.002	LT 0.04
10/28/07	0.013 ± 0.002	LT 0.04
11/04/07	0.023 ± 0.002	LT 0.03
11/11/07	0.013 ± 0.002	LT 0.04
11/18/07	0.026 ± 0.002	LT 0.05
11/25/07	0.019 ± 0.002	LT 0.03
12/02/07	0.029 ± 0.002	LT 0.03
12/09/07	0.023 ± 0.002	LT 0.04
12/18/07	0.030 ± 0.002	LT 0.02
12/23/07	0.037 ± 0.003	LT 0.05
12/30/06	0.011 ± 0.002	LT 0.03

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2007
Bridgman Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/08/07	0.018 ± 0.002	LT 0.03
01/14/07	NS	NS
01/21/07	NS	NS
01/27/07	0.028 ± 0.003	LT 0.04
02/04/07	0.025 ± 0.002	LT 0.03
02/13/07	0.020 ± 0.002	LT 0.02
02/18/07	0.021 ± 0.003	LT 0.05
02/25/07	0.023 ± 0.002	LT 0.04
03/04/07	0.010 ± 0.002	LT 0.03
03/12/07	0.020 ± 0.002	LT 0.03
03/18/07	0.019 ± 0.002	LT 0.04
03/25/07	0.016 ± 0.002	LT 0.04
04/01/07	0.014 ± 0.002	LT 0.03
04/08/07	0.014 ± 0.002	LT 0.04
04/15/07	0.015 ± 0.002	LT 0.04
04/22/07	0.016 ± 0.002	LT 0.04
04/29/07	0.012 ± 0.002	LT 0.04
05/06/07	0.016 ± 0.002	LT 0.04
05/13/07	0.017 ± 0.002	LT 0.04
05/20/07	0.009 ± 0.002	LT 0.04
05/27/07	0.020 ± 0.002	LT 0.04
06/03/07	0.024 ± 0.002	LT 0.04
06/10/07	0.017 ± 0.002	LT 0.04
06/17/07	0.025 ± 0.002	LT 0.03
06/24/07	0.020 ± 0.002	LT 0.03
07/01/07	0.017 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/09/07	0.018 ± 0.002	LT 0.03
07/15/07	0.015 ± 0.002	LT 0.04
07/22/07	0.014 ± 0.002	LT 0.04
07/29/07	0.025 ± 0.002	LT 0.03
08/04/07	0.025 ± 0.003	LT 0.05
08/12/07	0.021 ± 0.002	LT 0.03
08/19/07	0.018 ± 0.002	LT 0.04
08/26/07	0.012 ± 0.002	LT 0.03
09/03/07	0.028 ± 0.002	LT 0.03
09/09/07	0.034 ± 0.003	LT 0.04
09/16/07	0.011 ± 0.002	LT 0.03
09/24/07	0.036 ± 0.002	LT 0.03
09/30/07	0.016 ± 0.002	LT 0.04
10/08/07	0.023 ± 0.002	LT 0.03
10/14/07	0.014 ± 0.002	LT 0.04
10/21/07	0.024 ± 0.002	LT 0.04
10/28/07	0.018 ± 0.002	LT 0.04
11/04/07	0.025 ± 0.002	LT 0.03
11/11/07	0.014 ± 0.002	LT 0.04
11/18/07	0.028 ± 0.003	LT 0.05
11/25/07	0.021 ± 0.002	LT 0.03
12/02/07	0.033 ± 0.003	LT 0.03
12/09/07	0.024 ± 0.002	LT 0.04
12/18/07	0.033 ± 0.002	LT 0.02
12/23/07	0.044 ± 0.004	LT 0.05
12/30/06	0.029 ± 0.002	LT 0.03

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2007
Stevensville Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/08/07	0.016 ± 0.002	LT 0.03
01/14/07	0.016 ± 0.002	LT 0.05
01/21/07	NS	NS
01/27/07	0.052 ± 0.003	LT 0.04
02/04/07	0.022 ± 0.002	LT 0.03
02/13/07	0.021 ± 0.002	LT 0.02
02/18/07	0.020 ± 0.003	LT 0.05
02/25/07	0.021 ± 0.002	LT 0.04
03/04/07	0.011 ± 0.002	LT 0.03
03/12/07	0.021 ± 0.002	LT 0.02
03/18/07	0.024 ± 0.003	LT 0.04
03/25/07	0.016 ± 0.002	LT 0.04
04/01/07	0.016 ± 0.002	LT 0.03
04/08/07	0.015 ± 0.002	LT 0.04
04/15/07	0.016 ± 0.002	LT 0.04
04/22/07	0.016 ± 0.002	LT 0.04
04/29/07	0.015 ± 0.002	LT 0.04
05/06/07	0.015 ± 0.002	LT 0.04
05/13/07	0.017 ± 0.002	LT 0.04
05/20/07	0.020 ± 0.002	LT 0.04
05/27/07	0.019 ± 0.002	LT 0.04
06/03/07	0.024 ± 0.002	LT 0.04
06/10/07	0.017 ± 0.002	LT 0.04
06/17/07	0.025 ± 0.002	LT 0.03
06/24/07	0.024 ± 0.002	LT 0.03
07/01/07	0.017 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/09/07	0.020 ± 0.002	LT 0.03
07/15/07	0.015 ± 0.002	LT 0.04
07/22/07	0.014 ± 0.002	LT 0.04
07/29/07	0.025 ± 0.002	LT 0.03
08/04/07	0.026 ± 0.003	LT 0.05
08/12/07	0.022 ± 0.002	LT 0.03
08/19/07	0.019 ± 0.002	LT 0.04
08/26/07	0.015 ± 0.002	LT 0.03
09/03/07	0.029 ± 0.002	LT 0.03
09/09/07	0.032 ± 0.003	LT 0.04
09/16/07	0.012 ± 0.002	LT 0.03
09/24/07	0.033 ± 0.002	LT 0.03
09/30/07	0.016 ± 0.002	LT 0.05
10/08/07	0.029 ± 0.002	LT 0.03
10/14/07	0.010 ± 0.002	LT 0.04
10/21/07	0.026 ± 0.002	LT 0.04
10/28/07	0.019 ± 0.002	LT 0.04
11/04/07	0.025 ± 0.002	LT 0.03
11/11/07	0.015 ± 0.002	LT 0.04
11/18/07	0.029 ± 0.003	LT 0.05
11/25/07	0.023 ± 0.002	LT 0.03
12/02/07	0.034 ± 0.003	LT 0.03
12/09/07	0.025 ± 0.002	LT 0.04
12/18/07	0.033 ± 0.002	LT 0.02
12/23/07	0.050 ± 0.004	LT 0.05
12/30/06	0.032 ± 0.003	LT 0.03

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2007
Livingston Road Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/08/07	0.015 ± 0.002	LT 0.03
01/14/07	NS	NS
01/21/07	0.018 ± 0.001	LT 0.02
01/27/07	0.029 ± 0.003	LT 0.04
02/04/07	0.022 ± 0.002	LT 0.03
02/13/07	0.021 ± 0.002	LT 0.02
02/18/07	0.018 ± 0.003	LT 0.05
02/25/07	0.020 ± 0.002	LT 0.04
03/04/07	0.010 ± 0.002	LT 0.03
03/12/07	0.020 ± 0.002	LT 0.03
03/18/07	0.017 ± 0.002	LT 0.04
03/25/07	0.014 ± 0.002	LT 0.04
04/01/07	0.015 ± 0.002	LT 0.03
04/08/07	0.016 ± 0.002	LT 0.04
04/15/07	0.013 ± 0.002	LT 0.04
04/22/07	0.016 ± 0.002	LT 0.04
04/29/07	0.014 ± 0.002	LT 0.04
05/06/07	0.014 ± 0.002	LT 0.04
05/13/07	0.015 ± 0.002	LT 0.04
05/20/07	0.017 ± 0.002	LT 0.04
05/27/07	0.015 ± 0.002	LT 0.04
06/03/07	0.023 ± 0.002	LT 0.04
06/10/07	0.016 ± 0.002	LT 0.04
06/17/07	0.023 ± 0.002	LT 0.03
06/24/07	0.022 ± 0.002	LT 0.03
07/01/07	0.015 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/09/07	0.018 ± 0.002	LT 0.03
07/15/07	0.013 ± 0.002	LT 0.04
07/22/07	0.013 ± 0.002	LT 0.04
07/29/07	0.020 ± 0.002	LT 0.03
08/04/07	0.026 ± 0.003	LT 0.05
08/12/07	0.019 ± 0.002	LT 0.03
08/19/07	0.017 ± 0.002	LT 0.04
08/26/07	0.011 ± 0.002	LT 0.03
09/03/07	0.024 ± 0.002	LT 0.03
09/09/07	0.029 ± 0.003	LT 0.04
09/16/07	0.011 ± 0.002	LT 0.03
09/24/07	0.029 ± 0.002	LT 0.03
09/30/07	0.016 ± 0.002	LT 0.04
10/08/07	0.024 ± 0.002	LT 0.03
10/14/07	0.006 ± 0.002	LT 0.04
10/21/07	0.025 ± 0.002	LT 0.04
10/28/07	0.018 ± 0.002	LT 0.04
11/04/07	0.025 ± 0.002	LT 0.03
11/11/07	0.014 ± 0.002	LT 0.04
11/18/07	0.025 ± 0.002	LT 0.05
11/25/07	0.020 ± 0.002	LT 0.03
12/02/07	0.031 ± 0.003	LT 0.03
12/09/07	0.022 ± 0.002	LT 0.04
12/18/07	0.032 ± 0.002	LT 0.02
12/23/07	0.035 ± 0.003	LT 0.05
12/30/06	0.027 ± 0.002	LT 0.03

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
D. C. Cook
2007
Peddy Farm Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/08/07	0.015 ± 0.002	LT 0.03
01/14/07	0.014 ± 0.002	LT 0.05
01/21/07	0.017 ± 0.002	LT 0.03
01/27/07	0.027 ± 0.003	LT 0.04
02/04/07	0.021 ± 0.002	LT 0.03
02/13/07	0.020 ± 0.002	LT 0.02
02/18/07	0.020 ± 0.003	LT 0.05
02/25/07	0.020 ± 0.002	LT 0.04
03/04/07	0.011 ± 0.002	LT 0.03
03/12/07	0.020 ± 0.002	LT 0.03
03/18/07	0.022 ± 0.002	LT 0.04
03/25/07	0.017 ± 0.002	LT 0.04
04/01/07	0.015 ± 0.002	LT 0.03
04/08/07	0.014 ± 0.002	LT 0.04
04/15/07	0.013 ± 0.002	LT 0.04
04/22/07	0.017 ± 0.002	LT 0.04
04/29/07	0.013 ± 0.002	LT 0.04
05/06/07	0.015 ± 0.002	LT 0.04
05/13/07	0.015 ± 0.002	LT 0.04
05/20/07	0.017 ± 0.002	LT 0.04
05/27/07	0.017 ± 0.002	LT 0.04
06/03/07	0.023 ± 0.002	LT 0.04
06/10/07	0.015 ± 0.002	LT 0.04
06/17/07	0.026 ± 0.003	LT 0.04
06/24/07	0.017 ± 0.002	LT 0.03
07/01/07	0.017 ± 0.002	LT 0.04

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/09/07	0.016 ± 0.002	LT 0.03
07/15/07	0.016 ± 0.002	LT 0.04
07/22/07	0.013 ± 0.002	LT 0.04
07/29/07	0.025 ± 0.002	LT 0.03
08/04/07	0.025 ± 0.003	LT 0.05
08/12/07	0.020 ± 0.002	LT 0.03
08/19/07	0.017 ± 0.002	LT 0.04
08/26/07	0.013 ± 0.002	LT 0.03
09/03/07	0.024 ± 0.002	LT 0.03
09/09/07	0.029 ± 0.003	LT 0.04
09/16/07	0.013 ± 0.002	LT 0.04
09/24/07	0.033 ± 0.002	LT 0.03
09/30/07	0.016 ± 0.002	LT 0.04
10/08/07	0.031 ± 0.002	LT 0.03
10/14/07	0.012 ± 0.002	LT 0.04
10/21/07	0.025 ± 0.002	LT 0.04
10/28/07	0.015 ± 0.002	LT 0.04
11/04/07	0.024 ± 0.002	LT 0.03
11/11/07	0.017 ± 0.002	LT 0.04
11/18/07	0.024 ± 0.002	LT 0.05
11/25/07	0.020 ± 0.002	LT 0.03
12/02/07	0.031 ± 0.003	LT 0.03
12/09/07	0.023 ± 0.002	LT 0.04
12/18/07	0.037 ± 0.002	LT 0.02
12/23/07	0.043 ± 0.004	LT 0.05
12/30/06	0.027 ± 0.002	LT 0.03

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Fermi 2
2007
Reactor Site Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/04/07	0.024 ± 0.002	LT 0.05
01/11/07	0.015 ± 0.002	LT 0.05
01/18/07	0.011 ± 0.002	LT 0.04
01/25/07	0.023 ± 0.002	LT 0.04
02/01/07	0.032 ± 0.002	LT 0.04
02/08/07	0.024 ± 0.002	LT 0.04
02/15/07	0.022 ± 0.002	LT 0.04
02/22/07	0.023 ± 0.002	LT 0.04
03/01/07	0.013 ± 0.002	LT 0.04
03/08/07	0.015 ± 0.002	LT 0.04
03/15/07	0.019 ± 0.002	LT 0.04
03/22/07	0.019 ± 0.002	LT 0.04
03/29/07	0.016 ± 0.002	LT 0.04
04/05/07	0.013 ± 0.002	LT 0.04
04/12/07	0.010 ± 0.002	LT 0.04
04/19/07	0.015 ± 0.002	LT 0.04
04/26/07	0.016 ± 0.002	LT 0.04
05/03/07	0.012 ± 0.002	LT 0.04
05/10/07	0.016 ± 0.002	LT 0.04
05/17/07	0.017 ± 0.002	LT 0.04
05/24/07	0.021 ± 0.002	LT 0.04
05/31/07	0.019 ± 0.002	LT 0.04
06/07/07	0.017 ± 0.002	LT 0.04
06/14/07	0.018 ± 0.002	LT 0.04
06/21/07	0.020 ± 0.002	LT 0.04
06/28/07	0.019 ± 0.002	LT 0.05

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/05/07	0.012 ± 0.002	LT 0.04
07/12/07	0.019 ± 0.002	LT 0.04
07/19/07	0.014 ± 0.002	LT 0.04
07/26/07	0.015 ± 0.002	LT 0.04
08/05/07	0.030 ± 0.002	LT 0.02
08/09/07	0.024 ± 0.003	LT 0.08
08/16/07	0.017 ± 0.002	LT 0.04
08/23/07	0.015 ± 0.002	LT 0.04
08/30/07	0.020 ± 0.002	LT 0.04
09/06/07	0.030 ± 0.003	LT 0.04
09/13/07	0.015 ± 0.002	LT 0.04
09/20/07	0.021 ± 0.002	LT 0.04
09/27/07	0.023 ± 0.002	LT 0.04
10/04/07	0.028 ± 0.002	LT 0.04
10/11/07	0.020 ± 0.002	LT 0.04
10/18/07	0.024 ± 0.002	LT 0.04
10/25/07	0.021 ± 0.002	LT 0.04
11/01/07	0.016 ± 0.002	LT 0.04
11/08/07	0.015 ± 0.002	LT 0.04
11/15/07	0.034 ± 0.003	LT 0.07
11/22/07	0.018 ± 0.002	LT 0.04
11/29/07	0.023 ± 0.002	LT 0.04
12/06/07	0.020 ± 0.002	LT 0.04
12/13/07	0.028 ± 0.002	LT 0.04
12/20/07	0.035 ± 0.003	LT 0.05
12/27/07	0.039 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Fermi 2
2007
Pointe Aux Peaux Road Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/04/07	0.021 ± 0.002	LT 0.05
01/11/07	0.015 ± 0.002	LT 0.05
01/18/07	0.014 ± 0.002	LT 0.04
01/25/07	0.023 ± 0.002	LT 0.04
02/01/07	0.023 ± 0.002	LT 0.04
02/08/07	0.021 ± 0.002	LT 0.04
02/15/07	0.021 ± 0.002	LT 0.04
02/22/07	0.017 ± 0.002	LT 0.04
03/01/07	0.012 ± 0.002	LT 0.04
03/08/07	0.017 ± 0.002	LT 0.04
03/15/07	0.021 ± 0.002	LT 0.04
03/22/07	0.017 ± 0.002	LT 0.04
03/29/07	0.015 ± 0.002	LT 0.04
04/05/07	0.014 ± 0.002	LT 0.04
04/12/07	0.010 ± 0.002	LT 0.04
04/19/07	0.015 ± 0.002	LT 0.04
04/26/07	0.016 ± 0.002	LT 0.04
05/03/07	0.013 ± 0.002	LT 0.04
05/10/07	0.018 ± 0.002	LT 0.04
05/17/07	0.016 ± 0.002	LT 0.04
05/24/07	0.023 ± 0.002	LT 0.04
05/31/07	0.023 ± 0.002	LT 0.04
06/07/07	0.020 ± 0.002	LT 0.04
06/14/07	0.019 ± 0.002	LT 0.04
06/21/07	0.024 ± 0.002	LT 0.04
06/28/07	0.019 ± 0.002	LT 0.05

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/05/07	0.013 ± 0.002	LT 0.04
07/12/07	0.024 ± 0.002	LT 0.04
07/19/07	0.015 ± 0.002	LT 0.04
07/26/07	0.017 ± 0.002	LT 0.04
08/05/07	0.028 ± 0.002	LT 0.02
08/09/07	0.021 ± 0.003	LT 0.08
08/16/07	0.016 ± 0.002	LT 0.05
08/23/07	NS	NS
08/30/07	NS	NS
09/06/07	0.026 ± 0.002	LT 0.04
09/13/07	0.012 ± 0.002	LT 0.04
09/20/07	0.022 ± 0.002	LT 0.04
09/27/07	0.024 ± 0.002	LT 0.04
10/04/07	0.026 ± 0.002	LT 0.04
10/11/07	0.020 ± 0.002	LT 0.04
10/18/07	0.020 ± 0.002	LT 0.04
10/25/07	0.021 ± 0.002	LT 0.04
11/01/07	0.019 ± 0.002	LT 0.04
11/08/07	0.019 ± 0.002	LT 0.04
11/15/07	0.031 ± 0.003	LT 0.07
11/22/07	0.016 ± 0.002	LT 0.04
11/29/07	0.024 ± 0.002	LT 0.04
12/06/07	0.019 ± 0.002	LT 0.05
12/13/07	0.031 ± 0.003	LT 0.04
12/20/07	0.033 ± 0.003	LT 0.05
12/27/07	0.034 ± 0.003	LT 0.04

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
Fermi 2
2007
Nadeau Road Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/04/07	NS	NS
01/11/07	0.008 ± 0.002	LT 0.05
01/18/07	0.006 ± 0.002	LT 0.04
01/25/07	NS	NS
02/01/07	0.019 ± 0.002	LT 0.04
02/08/07	0.019 ± 0.002	LT 0.04
02/15/07	0.019 ± 0.002	LT 0.04
02/22/07	0.020 ± 0.002	LT 0.04
03/01/07	0.011 ± 0.002	LT 0.04
03/08/07	0.012 ± 0.002	LT 0.04
03/15/07	0.017 ± 0.002	LT 0.04
03/22/07	0.015 ± 0.002	LT 0.04
03/29/07	NS	NS
04/05/07	0.010 ± 0.002	LT 0.04
04/12/07	0.012 ± 0.002	LT 0.04
04/19/07	0.016 ± 0.002	LT 0.04
04/26/07	0.016 ± 0.002	LT 0.04
05/03/07	0.012 ± 0.002	LT 0.04
05/10/07	0.008 ± 0.003	LT 0.09
05/17/07	0.013 ± 0.002	LT 0.04
05/24/07	0.016 ± 0.002	LT 0.04
05/31/07	0.018 ± 0.002	LT 0.04
06/07/07	0.016 ± 0.002	LT 0.04
06/14/07	NS	NS
06/21/07	NS	NS
06/28/07	NS	NS

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/05/07	0.013 ± 0.002	LT 0.04
07/12/07	0.023 ± 0.002	LT 0.04
07/19/07	0.005 ± 0.002	LT 0.08
07/26/07	NS	NS
08/05/07	0.024 ± 0.003	LT 0.05
08/09/07	0.025 ± 0.003	LT 0.08
08/16/07	0.022 ± 0.002	LT 0.04
08/23/07	0.018 ± 0.002	LT 0.04
08/30/07	0.021 ± 0.002	LT 0.04
09/06/07	NS	NS
09/13/07	0.022 ± 0.003	LT 0.08
09/20/07	0.016 ± 0.003	LT 0.08
09/27/07	0.026 ± 0.002	LT 0.04
10/04/07	0.029 ± 0.002	LT 0.04
10/11/07	0.021 ± 0.002	LT 0.04
10/18/07	0.021 ± 0.003	LT 0.09
10/25/07	0.024 ± 0.002	LT 0.04
11/01/07	0.012 ± 0.002	LT 0.04
11/08/07	0.018 ± 0.002	LT 0.04
11/15/07	0.049 ± 0.005	LT 0.1
11/22/07	0.021 ± 0.002	LT 0.04
11/29/07	0.023 ± 0.002	LT 0.04
12/06/07	0.021 ± 0.002	LT 0.04
12/13/07	0.035 ± 0.003	LT 0.04
12/20/07	0.037 ± 0.003	LT 0.05
12/27/07	0.042 ± 0.003	LT 0.04

LT – Less Than
NS – No Sample

APPENDIX A

Atmospheric Monitoring
Fermi 2
2007
Dixie Highway Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/04/07	0.021 ± 0.002	LT 0.05
01/11/07	0.014 ± 0.002	LT 0.05
01/18/07	0.015 ± 0.002	LT 0.04
01/25/07	0.022 ± 0.002	LT 0.04
02/01/07	0.025 ± 0.002	LT 0.04
02/08/07	0.021 ± 0.002	LT 0.04
02/15/07	0.021 ± 0.002	LT 0.04
02/22/07	0.020 ± 0.002	LT 0.04
03/01/07	0.014 ± 0.002	LT 0.04
03/08/07	0.019 ± 0.002	LT 0.04
03/15/07	0.021 ± 0.002	LT 0.04
03/22/07	0.020 ± 0.002	LT 0.04
03/29/07	0.015 ± 0.002	LT 0.04
04/05/07	0.015 ± 0.002	LT 0.04
04/12/07	0.012 ± 0.002	LT 0.04
04/19/07	0.017 ± 0.002	LT 0.04
04/26/07	0.017 ± 0.002	LT 0.04
05/03/07	0.011 ± 0.002	LT 0.04
05/10/07	0.018 ± 0.002	LT 0.04
05/17/07	0.017 ± 0.002	LT 0.04
05/24/07	0.020 ± 0.002	LT 0.04
05/31/07	0.023 ± 0.002	LT 0.04
06/07/07	0.022 ± 0.002	LT 0.04
06/14/07	0.020 ± 0.002	LT 0.04
06/21/07	0.024 ± 0.002	LT 0.04
06/28/07	0.017 ± 0.002	LT 0.05

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/05/07	0.015 ± 0.002	LT 0.04
07/12/07	0.022 ± 0.002	LT 0.04
07/19/07	0.017 ± 0.002	LT 0.04
07/26/07	0.019 ± 0.002	LT 0.04
08/05/07	0.033 ± 0.002	LT 0.02
08/09/07	0.024 ± 0.003	LT 0.08
08/16/07	0.020 ± 0.002	LT 0.04
08/23/07	0.017 ± 0.002	LT 0.04
08/30/07	0.020 ± 0.002	LT 0.04
09/06/07	0.025 ± 0.002	LT 0.04
09/13/07	0.017 ± 0.002	LT 0.04
09/20/07	0.022 ± 0.002	LT 0.04
09/27/07	0.025 ± 0.002	LT 0.04
10/04/07	0.030 ± 0.002	LT 0.04
10/11/07	0.020 ± 0.002	LT 0.04
10/18/07	0.024 ± 0.002	LT 0.04
10/25/07	0.021 ± 0.002	LT 0.04
11/01/07	0.021 ± 0.002	LT 0.04
11/08/07	0.018 ± 0.002	LT 0.04
11/15/07	0.035 ± 0.003	LT 0.07
11/22/07	0.021 ± 0.002	LT 0.04
11/29/07	0.027 ± 0.002	LT 0.04
12/06/07	0.021 ± 0.002	LT 0.05
12/13/07	0.036 ± 0.003	LT 0.04
12/20/07	0.036 ± 0.003	LT 0.05
12/27/07	0.037 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
Fermi 2
2007
Fix Farm Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/04/07	0.021 ± 0.002	LT 0.05
01/11/07	0.015 ± 0.002	LT 0.05
01/18/07	0.011 ± 0.002	LT 0.04
01/25/07	0.024 ± 0.002	LT 0.04
02/01/07	0.024 ± 0.002	LT 0.04
02/08/07	0.023 ± 0.002	LT 0.04
02/15/07	0.021 ± 0.002	LT 0.04
02/22/07	0.023 ± 0.002	LT 0.04
03/01/07	0.014 ± 0.002	LT 0.04
03/08/07	0.017 ± 0.002	LT 0.04
03/15/07	0.021 ± 0.002	LT 0.04
03/22/07	0.017 ± 0.002	LT 0.04
03/29/07	0.015 ± 0.002	LT 0.04
04/05/07	0.013 ± 0.002	LT 0.04
04/12/07	0.011 ± 0.002	LT 0.04
04/19/07	0.013 ± 0.002	LT 0.04
04/26/07	0.014 ± 0.002	LT 0.04
05/03/07	0.011 ± 0.002	LT 0.04
05/10/07	0.015 ± 0.002	LT 0.04
05/17/07	0.013 ± 0.002	LT 0.04
05/24/07	0.020 ± 0.002	LT 0.04
05/31/07	0.022 ± 0.002	LT 0.04
06/07/07	0.020 ± 0.002	LT 0.04
06/14/07	0.017 ± 0.002	LT 0.04
06/21/07	0.022 ± 0.002	LT 0.04
06/28/07	0.016 ± 0.002	LT 0.05

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/05/07	0.013 ± 0.002	LT 0.04
07/12/07	0.023 ± 0.002	LT 0.04
07/19/07	0.014 ± 0.002	LT 0.04
07/26/07	0.016 ± 0.002	LT 0.04
08/05/07	0.029 ± 0.002	LT 0.02
08/09/07	0.024 ± 0.003	LT 0.08
08/16/07	0.019 ± 0.002	LT 0.04
08/23/07	0.014 ± 0.002	LT 0.04
08/30/07	0.017 ± 0.002	LT 0.04
09/06/07	0.028 ± 0.002	LT 0.04
09/13/07	0.016 ± 0.002	LT 0.04
09/20/07	0.020 ± 0.002	LT 0.04
09/27/07	0.026 ± 0.002	LT 0.04
10/04/07	0.025 ± 0.002	LT 0.04
10/11/07	0.021 ± 0.002	LT 0.05
10/18/07	0.022 ± 0.002	LT 0.04
10/25/07	0.021 ± 0.002	LT 0.04
11/01/07	0.020 ± 0.002	LT 0.04
11/08/07	0.018 ± 0.002	LT 0.04
11/15/07	0.031 ± 0.003	LT 0.07
11/22/07	0.019 ± 0.002	LT 0.04
11/29/07	0.024 ± 0.002	LT 0.04
12/06/07	0.017 ± 0.002	LT 0.05
12/13/07	0.029 ± 0.002	LT 0.04
12/20/07	0.033 ± 0.003	LT 0.05
12/27/07	0.036 ± 0.003	LT 0.04

LT – Less Than

APPENDIX A

Atmospheric Monitoring
2007
Lansing Background Reference Air Station

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
01/03/07	0.024 ± 0.002	LT 0.03
01/08/07	0.019 ± 0.003	LT 0.04
01/16/07	0.014 ± 0.002	LT 0.03
01/22/07	0.011 ± 0.002	LT 0.03
01/29/07	0.019 ± 0.002	LT 0.03
02/05/07	0.020 ± 0.002	LT 0.03
02/12/07	0.018 ± 0.002	LT 0.03
02/20/07	0.019 ± 0.002	LT 0.02
02/26/07	0.015 ± 0.002	LT 0.03
03/05/07	0.010 ± 0.002	LT 0.03
03/12/07	0.012 ± 0.002	LT 0.03
03/19/07	0.019 ± 0.002	LT 0.03
03/26/07	0.012 ± 0.002	LT 0.03
04/02/07	0.016 ± 0.002	LT 0.03
04/09/07	0.008 ± 0.002	LT 0.03
04/16/07	0.015 ± 0.002	LT 0.03
04/23/07	0.014 ± 0.002	LT 0.03
04/30/07	0.014 ± 0.002	LT 0.03
05/07/07	0.010 ± 0.002	LT 0.03
05/14/07	0.021 ± 0.002	LT 0.03
05/21/07	0.018 ± 0.002	LT 0.03
05/29/07	0.023 ± 0.002	LT 0.03
06/04/07	0.025 ± 0.003	LT 0.04
06/11/07	0.024 ± 0.003	NS
06/18/07	0.026 ± 0.003	LT 0.03
06/25/07	0.023 ± 0.003	LT 0.03

Collection Date	Gross Beta (pCi/m^3)	^{131}I (pCi/m^3)
07/02/07	0.018 ± 0.002	LT 0.03
07/09/07	0.020 ± 0.002	LT 0.03
07/16/07	0.021 ± 0.003	LT 0.01
07/23/07	0.024 ± 0.003	LT 0.03
07/30/07	0.029 ± 0.003	LT 0.03
08/06/07	0.033 ± 0.003	LT 0.03
08/13/07	0.026 ± 0.003	LT 0.03
08/20/07	0.017 ± 0.002	LT 0.03
08/27/07	0.014 ± 0.002	LT 0.03
09/04/07	0.028 ± 0.003	LT 0.03
09/10/07	0.032 ± 0.003	LT 0.04
09/17/07	0.017 ± 0.002	LT 0.03
09/24/07	0.033 ± 0.003	LT 0.03
10/01/07	0.023 ± 0.003	LT 0.03
10/08/07	0.027 ± 0.003	LT 0.03
10/15/07	0.015 ± 0.002	LT 0.03
10/22/07	0.026 ± 0.003	LT 0.03
10/29/07	0.015 ± 0.002	LT 0.03
11/05/07	0.026 ± 0.003	LT 0.03
11/13/07	0.030 ± 0.003	LT 0.03
11/19/07	0.019 ± 0.003	LT 0.04
11/26/07	0.022 ± 0.003	LT 0.03
12/03/07	0.026 ± 0.003	LT 0.03
12/10/07	0.022 ± 0.003	LT 0.03
12/17/07	0.028 ± 0.003	LT 0.03
12/26/07	0.034 ± 0.003	LT 0.03

LT – Less Than
NS – No Sample

APPENDIX B

Terrestrial Monitoring
2005
Charlevoix Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/12/05	LT 4	LT 2	1460 ± 80
01/26/05	LT 4	LT 3	1420 ± 70
02/09/05	LT 4	LT 2	1470 ± 80
02/23/05	LT 4	LT 3	1420 ± 80
03/09/05	LT 4	LT 3	1380 ± 80
03/23/05	LT 4	LT 3	1480 ± 80
04/06/05	LT 4	LT 3	1400 ± 70
04/20/05	LT 4	LT 2	1540 ± 80
05/04/05	LT 4	LT 3	1470 ± 80
05/18/05	LT 4	LT 3	1400 ± 80
06/01/05	LT 4	LT 3	1670 ± 80
06/15/05	LT 4	LT 3	1740 ± 80
06/29/05	LT 4	LT 2	1530 ± 80
07/13/05	LT 4	LT 2	1440 ± 80
07/27/05	LT 4	LT 2	1470 ± 80
08/10/05	LT 4	LT 2	1680 ± 80
08/24/05	LT 4	LT 3	1430 ± 80
09/07/05	LT 4	LT 2	1300 ± 70
09/21/05	LT 4	LT 2	1330 ± 70
10/05/05	LT 4	LT 3	1510 ± 80
10/19/05	LT 4	LT 3	1510 ± 80
11/02/05	LT 4	LT 3	1470 ± 80
11/16/05	LT 4	LT 3	1510 ± 80
11/30/05	LT 4	LT 3	1500 ± 80
12/14/05	LT 4	LT 2	1460 ± 80
12/28/05	LT 4	LT 2	1440 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2005
Detroit Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/26/05	LT 3	LT 2	1480 ± 80
02/08/05	LT 3	LT 3	1500 ± 80
03/07/05	LT 3	LT 3	1520 ± 80
04/26/05	LT 3	LT 3	1500 ± 80
05/27/05	LT 4	LT 3	1440 ± 90
06/14/05	LT 3	LT 3	1580 ± 80
07/12/05	LT 3	LT 3	1570 ± 80
08/24/05	LT 3	LT 2	1510 ± 80
09/19/05	LT 3	LT 2	1420 ± 70
10/25/05	LT 3	LT 3	1380 ± 90
11/17/05	LT 4	LT 3	1530 ± 80
12/05/05	LT 3	LT 3	1450 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2005
Grand Rapids Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
11/28/05	LT 3	LT 3	1490 ± 80
12/19/05	LT 3	LT 3	1460 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2005
Lansing Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/10/05	LT 2	LT 2	1490 ± 80
01/24/05	LT 3	LT 2	1440 ± 80
02/07/05	LT 2	LT 3	1470 ± 80
02/22/05	LT 2	LT 2	1470 ± 80
03/07/05	LT 2	LT 3	1470 ± 80
03/21/05	LT 2	LT 2	1480 ± 80
04/04/05	LT 3	LT 3	1450 ± 80
04/18/05	LT 3	LT 3	1420 ± 80
05/02/05	LT 3	LT 2	1510 ± 80
05/16/05	LT 2	LT 3	1460 ± 80
05/31/05	LT 2	LT 3	1380 ± 70
06/13/05	LT 2	LT 2	1480 ± 80
06/27/05	LT 2	LT 3	1440 ± 80
07/11/05	LT 3	LT 2	1490 ± 80
07/25/05	LT 2	LT 2	1470 ± 80
08/08/05	LT 2	LT 2	1440 ± 80
08/22/05	LT 2	LT 2	1490 ± 80
09/06/05	LT 3	LT 3	1450 ± 80
09/19/05	LT 2	LT 3	1500 ± 80
10/03/05	LT 3	LT 3	1480 ± 80
10/17/05	LT 2	LT 2	1440 ± 80
10/31/05	LT 3	LT 3	1460 ± 80
11/14/05	LT 2	LT 2	1430 ± 80
11/28/05	LT 3	LT 3	1490 ± 80
12/12/05	LT 2	LT 3	1480 ± 80
12/27/05	LT 2	LT 3	1500 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2005
Marquette Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/06/05	LT 4	LT 3	1570 ± 80
01/25/05	LT 3	LT 3	1480 ± 80
02/03/05	LT 4	LT 3	1450 ± 80
02/16/05	LT 3	LT 3	1470 ± 80
03/10/05	LT 4	LT 2	1440 ± 80
03/16/05	LT 3	LT 3	1480 ± 80
04/06/05	LT 5	LT 4	1460 ± 60
04/14/05	LT 4	LT 3	1180 ± 70
05/05/05	LT 4	LT 2	1400 ± 70
05/17/05	LT 3	LT 2	1490 ± 80
06/02/05	LT 4	LT 3	1440 ± 80
06/10/05	LT 3	LT 3	1450 ± 80
07/06/05	LT 4	LT 2	1480 ± 80
07/11/05	LT 3	LT 2	1500 ± 80
07/26/05	LT 4	LT 3	1390 ± 90
08/11/05	LT 4	LT 2	1420 ± 80
08/22/05	LT 3	LT 2	1560 ± 80
09/06/05	LT 3	LT 3	1420 ± 80
09/19/05	LT 3	LT 3	1480 ± 90
10/04/05	LT 3	LT 2	1460 ± 80
10/18/05	LT 3	LT 3	1440 ± 80
11/02/05	LT 3	LT 2	1390 ± 80
11/15/05	LT 3	LT 2	1510 ± 80
12/05/05	LT 3	LT 3	1440 ± 80
12/12/05	LT 3	LT 2	1420 ± 70

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2005
Monroe Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/10/05	LT 3	LT 2	1460 ± 80
01/20/05	LT 4	LT 3	1400 ± 80
02/03/05	LT 4	LT 2	1400 ± 70
02/17/05	LT 4	LT 2	1390 ± 80
03/03/05	LT 4	LT 2	1440 ± 80
03/17/05	LT 4	LT 2	1420 ± 80
03/31/05	LT 4	LT 3	1310 ± 70
04/14/05	LT 4	LT 3	1320 ± 70
04/28/05	LT 4	LT 2	1330 ± 70
05/12/05	LT 4	LT 3	1310 ± 70
05/26/05	LT 4	LT 2	1340 ± 70
06/08/05	LT 4	LT 2	1390 ± 70
06/23/05	LT 4	LT 3	1320 ± 70
07/09/05	LT 4	LT 3	1310 ± 80
07/21/05	LT 4	LT 2	1340 ± 70
08/04/05	LT 4	LT 2	1270 ± 70
08/18/05	LT 4	LT 2	1300 ± 70
08/25/05	LT 4	LT 2	1350 ± 70
09/15/05	LT 4	LT 3	1360 ± 70
09/29/05	LT 4	LT 2	1330 ± 70
10/13/05	LT 4	LT 3	1340 ± 80
10/27/05	LT 4	LT 2	1350 ± 70
11/10/05	LT 4	LT 3	1370 ± 70
11/24/05	LT 5	LT 3	1330 ± 80
12/08/05	LT 4	LT 2	1320 ± 70
12/15/05	LT 4	LT 2	1140 ± 70
12/29/05	LT 4	LT 3	1360 ± 70

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2005
South Haven Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/05/05	LT 3	LT 3	1540 ± 80
01/11/05	LT 3	LT 3	1580 ± 80
01/18/05	LT 3	LT 2	1620 ± 80
01/24/05	LT 4	LT 3	1470 ± 80
02/01/05	LT 3	LT 3	1500 ± 80
02/07/05	LT 3	LT 3	1370 ± 70
02/15/05	LT 3	LT 3	1520 ± 80
02/22/05	LT 3	LT 3	1430 ± 80
03/01/05	LT 3	LT 3	1700 ± 80
03/08/05	LT 3	LT 3	1500 ± 80
03/15/05	LT 3	LT 2	1460 ± 80
03/21/05	LT 3	LT 3	1520 ± 80
03/29/05	LT 3	LT 3	1640 ± 80
04/05/05	LT 3	LT 3	1470 ± 80
04/11/05	LT 3	LT 2	1570 ± 80
04/19/05	LT 3	LT 3	1520 ± 80
04/26/05	LT 3	LT 3	1580 ± 80
05/03/05	LT 3	LT 3	1470 ± 80
05/10/05	LT 3	LT 2	1540 ± 80
05/15/05	LT 4	LT 3	1470 ± 80
05/25/05	LT 3	LT 3	1430 ± 80
05/31/05	LT 3	LT 3	1450 ± 70
06/07/05	LT 3	LT 2	1710 ± 80
06/14/05	LT 3	LT 3	1530 ± 80
06/19/05	LT 3	LT 2	1550 ± 80
06/27/05	LT 3	LT 3	1480 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2005
South Haven Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
07/05/05	LT 3	LT 3	1630 ± 80
07/12/05	LT 3	LT 2	1480 ± 80
07/20/05	LT 3	LT 2	1540 ± 80
07/25/05	LT 3	LT 2	1240 ± 70
08/02/05	LT 3	LT 2	1480 ± 80
08/09/05	LT 3	LT 2	1310 ± 70
08/16/05	LT 3	LT 3	1470 ± 80
08/23/05	LT 3	LT 3	1500 ± 80
08/31/05	LT 3	LT 3	1430 ± 70
09/06/05	LT 3	LT 3	1640 ± 80
09/13/05	LT 3	LT 2	1460 ± 80
09/21/05	LT 3	LT 3	1600 ± 80
09/26/05	LT 3	LT 3	1530 ± 80
10/02/05	LT 4	LT 3	1610 ± 90
10/10/05	LT 3	LT 3	1570 ± 80
10/18/05	LT 3	LT 3	1510 ± 80
11/01/05	LT 3	LT 2	1290 ± 70
11/15/05	LT 3	LT 3	1220 ± 80
11/29/05	LT 3	LT 3	1350 ± 70
12/12/05	LT 3	LT 2	1420 ± 80
12/28/05	LT 3	LT 3	1330 ± 70

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2006
Charlevoix Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/11/06	LT 4	LT 2	1440 ± 80
01/25/06	LT 4	LT 3	1360 ± 80
02/08/06	LT 4	LT 3	1540 ± 80
02/22/06	LT 4	LT 3	1460 ± 80
03/08/06	LT 4	LT 3	1500 ± 80
03/22/06	LT 4	LT 3	1360 ± 70
04/05/06	LT 4	LT 2	1460 ± 80
04/19/06	LT 4	LT 2	1430 ± 70
05/03/06	LT 4	LT 3	1480 ± 80
05/17/06	LT 4	LT 2	1400 ± 80
05/31/06	LT 4	LT 2	1450 ± 80
06/14/06	LT 4	LT 2	1460 ± 80
06/28/06	LT 4	LT 3	1380 ± 80
07/12/06	LT 4	LT 3	1630 ± 80
07/26/06	LT 4	3 ± 2	1220 ± 70
08/09/06	LT 4	LT 3	1440 ± 80
08/23/06	LT 4	LT 2	1340 ± 70
09/06/06	LT 4	LT 3	1410 ± 80
09/20/06	LT 4	LT 2	1560 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2006
Detroit Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/10/06	LT 3	LT 2	1420 ± 80
02/14/06	LT 3	LT 3	1500 ± 80
03/27/06	LT 3	LT 2	1440 ± 80
04/04/06	LT 3	LT 3	1430 ± 90
05/23/06	LT 3	LT 2	1460 ± 80
06/26/06	LT 3	LT 3	1480 ± 80
07/11/06	LT 3	LT 3	1470 ± 80
08/16/06	LT 3	LT 3	1510 ± 80
09/19/06	LT 4	LT 3	1440 ± 80
10/18/06	LT 3	LT 3	1460 ± 80
11/06/06	LT 3	LT 3	1480 ± 80
12/13/06	LT 3	LT 3	1430 ± 90

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2006
Grand Rapids Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/05/06	LT 4	LT 2	1460 ± 80
02/23/06	LT 4	LT 3	1450 ± 80
03/27/06	LT 3	LT 3	1460 ± 80
04/19/06	LT 4	LT 3	1490 ± 80
05/23/06	LT 4	LT 2	1380 ± 70
06/23/06	LT 6	LT 3	1410 ± 80
07/19/06	LT 4	LT 2	1380 ± 80
08/25/06	LT 3	LT 3	1430 ± 80
09/21/06	LT 4	LT 2	1490 ± 80
10/13/06	LT 4	LT 3	1480 ± 80
11/27/06	LT 3	LT 3	1410 ± 80
12/20/06	LT 3	LT 3	1510 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2006
Lansing Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/09/06	LT 2	LT 3	1380 ± 70
01/23/06	LT 2	LT 2	1510 ± 80
02/06/06	LT 2	LT 2	1420 ± 80
02/21/06	LT 2	LT 3	1540 ± 80
03/06/06	LT 2	LT 2	1470 ± 80
03/20/06	LT 2	LT 2	1440 ± 80
04/03/06	LT 3	LT 2	1480 ± 80
04/17/06	LT 3	LT 2	1490 ± 80
05/01/06	LT 2	LT 2	1380 ± 80
05/15/06	LT 2	LT 2	1480 ± 80
05/30/06	LT 3	LT 2	1430 ± 80
06/12/06	LT 3	LT 3	1480 ± 80
06/26/06	LT 2	LT 3	1430 ± 80
07/10/06	LT 2	LT 3	1410 ± 70
07/24/06	LT 2	LT 2	1410 ± 80
08/07/06	LT 2	LT 3	1450 ± 80
08/21/06	LT 2	LT 3	1430 ± 80
09/05/06	LT 3	LT 2	1430 ± 80
09/18/06	LT 2	LT 3	1460 ± 80
10/02/06	LT 3	LT 3	1440 ± 80
10/16/06	LT 2	LT 2	1450 ± 80
10/30/06	LT 3	LT 3	1500 ± 80
11/13/06	LT 3	LT 2	1440 ± 80
11/27/06	LT 3	LT 3	1430 ± 80
12/11/06	LT 3	LT 2	1470 ± 80
12/27/06	LT 2	LT 3	1580 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2006
Marquette Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/09/06	LT 3	LT 2	1430 ± 80
01/26/06	LT 4	LT 2	1390 ± 70
02/08/06	LT 3	LT 3	1390 ± 80
02/23/06	LT 4	LT 2	1430 ± 80
03/09/06	LT 4	LT 3	1410 ± 80
03/20/06	LT 3	LT 3	1500 ± 80
04/03/06	LT 3	LT 3	1460 ± 80
04/25/06	LT 4	LT 2	1470 ± 80
05/09/06	LT 4	LT 3	1470 ± 80
05/22/06	LT 3	LT 2	1520 ± 80
06/08/06	LT 4	LT 3	1490 ± 80
06/19/06	LT 4	LT 3	1480 ± 80
07/10/06	LT 3	LT 2	1480 ± 80
07/25/06	LT 3	LT 3	1480 ± 80
08/07/06	LT 3	LT 2	1530 ± 80
08/23/06	LT 3	LT 3	1530 ± 80
09/06/06	LT 3	LT 3	1410 ± 70
09/19/06	LT 3	LT 2	1470 ± 80
10/03/06	LT 3	LT 3	1440 ± 80
10/17/06	LT 3	LT 2	1490 ± 80
11/13/06	LT 3	LT 3	1460 ± 80
11/20/06	LT 3	LT 3	1500 ± 80
12/12/06	LT 3	LT 3	1440 ± 80
12/18/06	LT 3	LT 3	1510 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2006
Monroe Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/12/06	LT 4	LT 2	1340 ± 80
01/26/06	LT 4	LT 2	1330 ± 70
02/10/06	LT 4	LT 2	1030 ± 70
02/24/06	LT 4	LT 2	1190 ± 70
03/10/06	LT 4	LT 3	1350 ± 80
03/24/06	LT 4	LT 2	910 ± 60
04/06/06	LT 4	LT 2	950 ± 60
04/20/06	LT 4	LT 2	860 ± 60
05/04/06	LT 4	LT 2	930 ± 60
05/18/06	LT 4	LT 3	1270 ± 80
06/12/06	LT 4	LT 2	1170 ± 70
06/16/06	LT 4	LT 3	1130 ± 70
06/30/06	LT 4	LT 3	1260 ± 70
07/14/06	LT 4	LT 2	1300 ± 70
07/27/06	LT 4	LT 2	1260 ± 70
08/10/06	LT 4	LT 3	1380 ± 70
08/24/06	LT 4	LT 2	1380 ± 70
09/07/06	LT 4	LT 2	1320 ± 70
09/21/06	LT 4	LT 3	1110 ± 80
10/05/06	LT 4	LT 3	1320 ± 70
10/19/06	LT 4	LT 3	1280 ± 70
11/02/06	LT 4	LT 3	1380 ± 80
11/16/06	LT 4	LT 3	1410 ± 80
11/30/06	LT 4	LT 3	1330 ± 70
12/07/06	LT 8	LT 3	1270 ± 80
12/28/06	LT 4	LT 2	1190 ± 70

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2006
South Haven Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/10/06	LT 3	LT 3	1350 ± 80
01/24/06	LT 3	LT 3	1490 ± 80
02/07/06	LT 4	LT 3	1410 ± 80
02/20/06	LT 3	LT 3	1390 ± 80
03/10/06	LT 4	LT 3	1370 ± 70
03/21/06	LT 3	LT 2	1110 ± 70
04/05/06	LT 3	LT 3	1470 ± 80
04/25/06	LT 3	LT 3	1520 ± 80
05/10/06	LT 3	LT 3	1290 ± 70
05/22/06	LT 3	LT 2	1340 ± 70
06/06/06	LT 3	LT 3	1510 ± 80
06/20/06	LT 3	LT 3	1480 ± 80
07/03/06	LT 4	LT 3	1140 ± 80
07/17/06	LT 3	LT 2	1580 ± 80
07/31/06	LT 3	LT 3	1480 ± 80
08/15/06	LT 3	LT 2	1350 ± 70
08/30/06	LT 3	LT 2	1290 ± 70
09/12/06	LT 3	LT 2	1300 ± 70
09/25/06	LT 3	LT 2	1260 ± 70
10/09/06	LT 3	LT 2	1320 ± 70
10/31/06	LT 3	LT 2	1140 ± 70
11/15/06	LT 6	LT 2	890 ± 60
11/27/06	LT 4	LT 3	1630 ± 90
12/13/06	LT 3	LT 2	1320 ± 70
12/27/06	LT 3	LT 2	1420 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2007
Detroit Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/16/07	LT 3	LT 3	1490 ± 80
02/14/07	LT 3	LT 3	1470 ± 80
03/05/07	LT 3	LT 3	1520 ± 80
04/30/07	LT 3	LT 3	1450 ± 80
05/22/07	LT 3	LT 3	1520 ± 80
06/04/07	LT 3	LT 3	1500 ± 80
07/17/07	LT 3	LT 3	1440 ± 80
08/20/07	LT 3	LT 3	1530 ± 90
09/18/07	LT 3	LT 3	1530 ± 80
10/09/07	LT 3	LT 3	1510 ± 80
11/05/07	LT 3	LT 3	1490 ± 80
12/11/07	LT 3	LT 3	1460 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2007
Grand Rapids Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/30/07	LT 3	LT 3	1500 ± 80
02/21/07	LT 4	LT 3	1480 ± 90
03/28/07	LT 20	LT 3	1520 ± 80
04/13/07	LT 5	LT 3	1450 ± 90
05/24/07	LT 4	LT 2	1350 ± 70
06/11/07	LT 4	LT 3	1450 ± 80
07/30/07	LT 4	LT 3	1510 ± 90
08/28/07	LT 3	LT 3	1500 ± 80
09/10/07	LT 4	LT 3	1360 ± 80
10/10/07	LT 4	LT 3	1370 ± 80
11/29/07	LT 4	LT 3	1430 ± 80
12/21/07	LT 5	LT 3	1450 ± 90

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2007
Lansing Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/08/07	LT 3	LT 3	1550 ± 80
01/22/07	LT 3	LT 3	1420 ± 80
02/05/07	LT 3	LT 3	1490 ± 80
02/20/07	LT 3	LT 3	1550 ± 80
03/05/07	LT 3	LT 3	1490 ± 80
03/19/07	LT 3	LT 3	1370 ± 80
04/02/07	LT 3	LT 3	1460 ± 80
04/16/07	LT 3	LT 3	1410 ± 80
04/30/07	LT 3	LT 3	1500 ± 80
05/14/07	LT 3	LT 3	1500 ± 80
05/29/07	LT 2	LT 2	1220 ± 70
06/11/07	LT 3	LT 2	1450 ± 80
06/25/07	LT 3	LT 3	1540 ± 80
07/09/07	LT 3	LT 3	1450 ± 80
07/23/07	LT 3	LT 3	1500 ± 80
08/06/07	LT 3	LT 3	1570 ± 80
08/20/07	LT 3	LT 3	1480 ± 80
09/04/07	LT 3	LT 3	1530 ± 80
09/17/07	LT 3	LT 3	1480 ± 80
10/01/07	LT 3	LT 3	1450 ± 80
10/15/07	LT 3	LT 3	1430 ± 90
10/29/07	LT 3	LT 3	1520 ± 80
11/13/07	LT 3	LT 3	1460 ± 80
11/26/07	LT 3	LT 3	1380 ± 80
12/10/07	LT 3	LT 3	1400 ± 80
12/26/07	LT 3	LT 3	1410 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2007
Marquette Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/08/07	LT 3	LT 2	1500 ± 80
01/22/07	LT 3	LT 3	1420 ± 80
02/06/07	LT 4	LT 3	1460 ± 90
02/21/07	LT 4	LT 3	1410 ± 80
03/05/07	LT 4	LT 3	1460 ± 80
03/19/07	LT 4	LT 3	1430 ± 90
04/23/07	LT 4	LT 3	1360 ± 80
05/17/07	LT 5	LT 2	1220 ± 70
05/23/07	LT 5	LT 3	1470 ± 80
06/07/07	LT 4	LT 3	1400 ± 80
07/02/07	LT 4	LT 3	1450 ± 80
07/10/07	LT 5	LT 3	1470 ± 80
08/01/07	LT 4	LT 3	1560 ± 80
08/13/07	LT 4	LT 3	1440 ± 80
08/15/07	LT 5	LT 3	1460 ± 80
09/20/07	LT 4	LT 3	1410 ± 80
10/31/07	LT 4	LT 3	1380 ± 80
11/20/07	LT 5	LT 3	1510 ± 80
12/10/07	LT 4	LT 3	1490 ± 80
12/14/07	LT 4	LT 3	1470 ± 80
12/20/07	LT 5	LT 3	1500 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2007
Monroe Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/11/07	LT 5	LT 3	1400 ± 80
01/25/07	LT 4	LT 3	1290 ± 80
02/09/07	LT 4	LT 3	1370 ± 80
02/22/07	LT 5	LT 3	1320 ± 80
03/09/07	LT 4	LT 3	1430 ± 80
03/22/07	LT 4	LT 3	1320 ± 80
04/06/07	LT 4	LT 3	1370 ± 80
05/04/07	LT 4	LT 3	1350 ± 80
05/17/07	LT 4	LT 2	950 ± 70
05/31/07	LT 4	LT 2	700 ± 60
06/14/07	LT 4	LT 3	1400 ± 80
06/28/07	LT 5	LT 3	1320 ± 80
07/12/07	LT 5	LT 3	1150 ± 80
07/26/07	LT 4	LT 3	1260 ± 80
08/09/07	LT 5	LT 3	1340 ± 80
08/23/07	LT 5	LT 3	1470 ± 80
09/06/07	LT 4	LT 3	1170 ± 80
09/20/07	LT 5	LT 3	1180 ± 80
10/04/07	LT 4	LT 3	1100 ± 70
10/18/07	LT 4	LT 3	1390 ± 80
11/01/07	LT 4	LT 3	1140 ± 80
11/15/07	LT 7	LT 3	920 ± 70
11/29/07	LT 5	LT 3	920 ± 70
12/14/07	LT 4	LT 3	1180 ± 80
12/29/07	LT 4	4 ± 3	1320 ± 80

LT – Less Than

APPENDIX B

Terrestrial Monitoring
2007
South Haven Milk Station

Collection Date	^{131}I (pCi/l)	^{137}Cs (pCi/l)	^{40}K (pCi/l)
01/09/07	LT 3	LT 3	1390 ± 70
01/24/07	LT 3	LT 3	1140 ± 80
02/04/07	LT 4	LT 3	1350 ± 80
02/21/07	LT 3	LT 3	1190 ± 80
03/07/07	LT 3	LT 3	1340 ± 80
03/21/07	LT 3	LT 3	1120 ± 70
04/03/07	LT 4	LT 3	1220 ± 80
04/18/07	LT 3	LT 3	1410 ± 80
05/01/07	LT 3	LT 3	1550 ± 80
05/16/07	LT 3	LT 3	1510 ± 80
05/30/07	LT 2	LT 2	1170 ± 70
06/13/07	LT 3	LT 3	1240 ± 80
06/27/07	LT 3	LT 3	1140 ± 80
07/10/07	LT 3	LT 3	1320 ± 80
07/24/07	LT 3	LT 3	1080 ± 70
08/08/07	LT 3	LT 3	1180 ± 80
08/20/07	LT 4	LT 3	1230 ± 80
09/05/07	LT 3	LT 3	1440 ± 80
09/19/07	LT 3	LT 3	1270 ± 80
10/10/07	LT 4	LT 3	1460 ± 80
10/17/07	LT 3	LT 3	1470 ± 80
10/30/07	LT 3	LT 3	890 ± 70
11/13/07	LT 3	LT 3	1170 ± 80
11/28/07	LT 3	LT 3	1130 ± 80
12/12/07	LT 3	LT 3	1270 ± 80
12/25/07	LT 4	LT 3	1140 ± 80

LT – Less Than

APPENDIX C

Aquatic Monitoring
Big Rock Point
2005
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
05/29/05	4 ± 1	LT 100
06/25/05	2 ± 1	LT 100
07/27/05	2 ± 1	LT 100
08/28/05	2 ± 1	LT 100
09/25/05	3 ± 1	LT 100
10/25/05	2 ± 1	LT 100
11/27/05	3 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Palisades
2005
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
02/02/05	2 ± 1	LT 100
02/14/05	2 ± 1	LT 100
03/14/05	2 ± 1	1100 ± 100
04/26/05	LT 1	LT 100
05/09/05	2 ± 1	LT 100
06/13/05	2 ± 1	LT 100
07/11/05	2 ± 1	3300 ± 100
08/09/05	1 ± 1	LT 100
09/13/05	3 ± 1	LT 100
10/10/05	3 ± 1	LT 100
12/13/05	2 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
D. C. Cook Unit 1
2005
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/29/05	2 ± 1	LT 100
02/27/05	3 ± 1	LT 100
03/25/05	2 ± 1	LT 100
04/29/05	2 ± 1	LT 100
05/15/05	2 ± 1	100 ± 100
06/24/05	2 ± 1	LT 100
07/30/05	2 ± 1	LT 100
08/31/05	2 ± 1	LT 100
09/29/05	2 ± 1	LT 100
10/30/05	LT 1	LT 100
12/26/05	2 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
D. C. Cook Unit 2
2005
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/29/05	2 ± 1	LT 100
02/27/05	1 ± 1	LT 100
03/25/05	3 ± 1	LT 100
04/29/05	2 ± 1	LT 100
05/15/05	2 ± 1	LT 100
06/24/05	2 ± 1	LT 100
07/30/05	1 ± 1	LT 100
08/31/05	3 ± 1	LT 100
09/29/05	2 ± 1	LT 100
10/30/05	1 ± 1	LT 100
11/30/05	2 ± 1	LT 100
12/26/05	3 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2005
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
03/17/05	2 ± 1	LT 100
03/31/05	3 ± 1	LT 100
05/05/05	3 ± 1	LT 100
06/02/05	3 ± 1	LT 100
07/07/05	2 ± 1	LT 100
08/09/05	2 ± 1	LT 100
09/08/05	2 ± 1	LT 100
10/06/05	1 ± 1	LT 100
10/27/05	2 ± 1	LT 100
12/01/05	2 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2005
Monroe Intake Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/26/05	2 ± 1	LT 100
02/22/05	4 ± 1	LT 100
03/29/05	4 ± 1	LT 100
04/26/05	2 ± 1	LT 100
06/28/05	3 ± 1	100 ± 100
07/26/05	2 ± 1	LT 100
08/30/05	2 ± 1	LT 100
09/27/05	2 ± 1	LT 100
10/25/05	2 ± 1	LT 100
11/29/05	LT 1	LT 100
12/20/05	2 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2005
Trenton Channel Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/26/05	2 ± 1	LT 100
02/22/05	3 ± 1	LT 100
03/29/05	2 ± 1	LT 100
04/26/05	2 ± 1	LT 100
06/28/05	1 ± 1	200 ± 100
07/26/05	2 ± 1	LT 100
08/30/05	LT 1	LT 100
09/27/05	2 ± 1	LT 100
10/25/05	2 ± 1	LT 100
11/29/05	2 ± 1	LT 100
12/20/05	3 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2005
Allen Park Intake Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/26/05	2 ± 1	LT 100
02/22/05	2 ± 1	LT 100
03/29/05	LT 1	100 ± 100
04/26/05	1 ± 1	LT 100
06/28/05	1 ± 1	LT 100
07/26/05	1 ± 1	LT 100
08/30/05	LT 1	LT 100
09/27/05	2 ± 1	LT 100
10/25/05	1 ± 1	LT 100
11/29/05	LT 1	LT 100
12/20/05	2 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2005
Fermi 2 Intake Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/26/05	2 ± 1	LT 100
02/22/05	2 ± 1	LT 100
03/29/05	3 ± 1	200 ± 100
04/26/05	2 ± 1	LT 100
06/28/05	2 ± 1	200 ± 100
07/26/05	1 ± 1	LT 100
08/30/05	LT 1	LT 100
09/27/05	3 ± 1	200 ± 100
10/25/05	2 ± 1	LT 100
11/29/05	2 ± 1	LT 100
12/20/05	2 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Big Rock Point
2006
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
04/25/06	3 ± 1	LT 100
05/30/06	2 ± 1	LT 100
06/28/06	LT 1	LT 100
07/26/06	2 ± 1	LT 100
08/27/06	LT 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Palisades
2006
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/27/06	2 ± 1	LT 100
02/16/06	2 ± 1	LT 100
03/14/06	3 ± 1	LT 100
04/13/06	LT 1	LT 100
05/08/06	LT 1	LT 100
06/13/06	3 ± 1	LT 100
07/11/06	1 ± 1	LT 100
08/11/06	2 ± 1	LT 100
09/21/06	2 ± 1	LT 100
10/19/06	1 ± 1	LT 100
11/29/06	LT 1	LT 100
12/13/06	3 ± 1	40100 ± 400

LT – Less Than

APPENDIX C

Aquatic Monitoring
D. C. Cook Unit 1
2006
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/31/06	2 ± 1	LT 100
02/26/06	1 ± 1	LT 100
03/30/06	1 ± 1	LT 100
04/26/06	2 ± 1	LT 100
05/24/06	2 ± 1	LT 100
06/30/06	LT 1	LT 100
07/27/06	1 ± 1	LT 100
08/30/06	1 ± 1	LT 100
10/31/06	2 ± 1	LT 100
11/29/06	1 ± 1	LT 100
12/27/06	2 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
D. C. Cook Unit 2
2006
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/31/06	2 ± 1	LT 100
02/26/06	2 ± 1	LT 100
04/26/06	2 ± 1	LT 100
05/24/06	2 ± 1	LT 100
06/30/06	LT 1	LT 100
07/27/06	2 ± 1	LT 100
08/30/06	1 ± 1	LT 100
09/30/06	LT 1	LT 100
11/01/06	2 ± 1	LT 100
11/29/06	2 ± 1	LT 100
12/27/06	LT 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2006
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/05/06	2 ± 1	LT 100
02/02/06	3 ± 1	LT 100
03/02/06	3 ± 1	LT 100
03/30/06	2 ± 1	LT 100
05/04/06	3 ± 1	LT 100
06/01/06	3 ± 1	LT 100
06/30/06	2 ± 1	LT 100
07/27/06	2 ± 1	LT 100
08/31/06	2 ± 1	200 ± 100
09/28/06	2 ± 1	LT 100
10/26/06	2 ± 1	LT 100
11/30/06	2 ± 1	LT 100
12/29/06	4 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2006
Monroe Intake Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/31/06	2 ± 1	LT 100
02/28/06	2 ± 1	LT 100
03/28/06	2 ± 1	LT 100
04/25/06	3 ± 1	LT 100
05/30/06	2 ± 1	LT 100
06/28/06	2 ± 1	LT 100
07/26/06	2 ± 1	LT 100
08/30/06	2 ± 1	LT 100
09/27/06	2 ± 1	LT 100
10/25/06	2 ± 1	LT 100
11/29/06	2 ± 1	LT 100
12/27/06	4 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2006
Trenton Channel Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/31/06	1 ± 1	200 ± 100
02/28/06	2 ± 1	LT 100
03/28/06	2 ± 1	LT 100
04/25/06	2 ± 1	LT 100
05/30/06	LT 1	LT 100
06/28/06	2 ± 1	LT 100
07/26/06	2 ± 1	LT 100
08/30/06	2 ± 1	LT 100
09/27/06	2 ± 1	LT 100
10/25/06	2 ± 1	LT 100
11/29/06	1 ± 1	LT 100
12/27/06	2 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2006
Allen Park Intake Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/31/06	2 ± 1	200 ± 100
02/28/06	1 ± 1	LT 100
03/28/06	1 ± 1	LT 100
04/25/06	LT 1	LT 100
05/30/06	LT 1	LT 100
06/28/06	LT 1	LT 100
07/26/06	1 ± 1	LT 100
08/30/06	1 ± 1	LT 100
09/27/06	2 ± 1	LT 100
10/25/06	2 ± 1	LT 100
11/29/06	1 ± 1	LT 100
12/27/06	2 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2006
Fermi 2 Intake Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/31/06	3 ± 1	LT 100
02/28/06	2 ± 1	LT 100
03/28/06	2 ± 1	LT 100
04/25/06	2 ± 1	200 ± 100
05/30/06	2 ± 1	LT 100
06/28/06	2 ± 1	LT 100
07/26/06	2 ± 1	LT 100
08/30/06	LT 1	LT 100
09/27/06	2 ± 1	LT 100
10/25/06	2 ± 1	LT 100
11/29/06	2 ± 1	LT 100
12/27/06	3 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Palisades
2007
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/10/07	1 ± 1	LT 100
02/27/07	2 ± 1	LT 100
03/15/07	2 ± 1	300 ± 100
04/10/07	2 ± 2	LT 100
05/14/07	LT 1	LT 100
06/13/07	LT 1	200 ± 100
07/09/07	2 ± 1	LT 100
08/20/07	2 ± 1	LT 100
09/19/07	LT 1	LT 100
10/11/07	2 ± 1	LT 100
11/09/07	3 ± 1	72000 ± 500
12/19/07	LT 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
D. C. Cook Unit 1
2007
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/31/07	LT 1	LT 100
03/14/07	2 ± 1	LT 100
04/11/07	LT 1	LT 100
05/23/07	2 ± 1	LT 100
06/22/07	LT 1	LT 100
07/27/07	1 ± 1	LT 100
09/11/07	LT 1	400 ± 200
12/28/07	2 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
D. C. Cook Unit 2
2007
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
02/01/07	LT 1	200 ± 100
03/14/07	2 ± 1	LT 100
04/11/07	2 ± 1	LT 100
05/23/07	1 ± 1	LT 100
06/22/07	2 ± 1	LT 100
07/27/07	LT 1	LT 100
09/11/07	LT 1	LT 100
12/28/07	2 ± 1	300 ± 200

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2007
Reactor Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
03/29/07	LT 4	LT 100
05/03/07	LT 4	LT 100
06/07/07	LT 3	LT 100
06/28/07	4 ± 1	LT 100
07/26/07	2 ± 1	LT 100
08/30/07	4 ± 1	LT 100
10/04/07	4 ± 1	LT 100
11/01/07	3 ± 1	LT 100
11/29/07	6 ± 2	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2007
Monroe Intake Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/31/07	3 ± 1	LT 100
02/28/07	2 ± 1	200 ± 100
03/28/07	1 ± 1	LT 100
04/25/07	LT 2	400 ± 200
05/30/07	2 ± 1	LT 100
06/26/07	LT 1	LT 100
07/25/07	2 ± 1	LT 100
08/29/07	1 ± 1	LT 100
09/28/07	2 ± 1	LT 100
10/31/07	3 ± 1	200 ± 100
11/28/07	4 ± 1	LT 100
12/26/07	2 ± 1	LT 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2007
Trenton Channel Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/31/07	2 ± 1	LT 100
02/28/07	LT 1	200 ± 100
03/28/07	2 ± 1	LT 100
04/25/07	LT 2	300 ± 100
05/30/07	2 ± 1	LT 100
06/26/07	LT 1	LT 100
07/25/07	2 ± 1	200 ± 100
08/29/07	2 ± 1	LT 100
09/28/07	LT 1	LT 100
10/31/07	2 ± 1	LT 100
11/28/07	2 ± 1	LT 100
12/26/07	2 ± 1	Lt 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2007
Allen Park Intake Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/31/07	1 ± 1	200 ± 100
02/28/07	3 ± 1	LT 100
03/28/07	1 ± 1	LT 100
04/25/07	2 ± 1	200 ± 100
05/30/07	2 ± 1	LT 100
06/26/07	2 ± 1	200 ± 100
07/25/07	3 ± 1	LT 100
08/29/07	LT 1	LT 100
09/28/07	LT 1	LT 100
10/31/07	2 ± 1	LT 100
11/28/07	LT 1	LT 100
12/26/07	2 ± 1	200 ± 100

LT – Less Than

APPENDIX C

Aquatic Monitoring
Fermi 2
2007
Fermi 2 Intake Site

Collection Date	Gross Beta (pCi/l)	Tritium (pCi/l)
01/31/07	2 ± 1	LT 100
02/28/07	2 ± 1	200 ± 100
03/28/07	3 ± 1	LT 100
04/25/07	2 ± 1	200 ± 100
05/30/07	2 ± 1	LT 100
06/26/07	2 ± 1	LT 100
07/25/07	2 ± 1	LT 100
08/29/07	3 ± 1	LT 100
09/28/07	3 ± 1	LT 100
10/31/07	2 ± 1	LT 100
11/28/07	2 ± 1	LT 100
12/26/07	3 ± 1	200 ± 100

LT – Less Than

APPENDIX D

Direct Radiation Monitoring
2005
Big Rock Point Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DB-RS	21.5 ± 0.8	17.3 ± 0.7	16.6 ± 0.7	15.3 ± 0.6
DB-01	12.5 ± 0.6	14.1 ± 0.6	14.9 ± 0.6	14.5 ± 0.6
DB-02	11.9 ± 0.6	12.7 ± 0.6	14.3 ± 0.6	13.6 ± 0.6
DB-03	11.7 ± 0.6	13.8 ± 0.6	13.7 ± 0.6	15.0 ± 0.6
DB-04	11.4 ± 0.5	12.9 ± 0.6	13.2 ± 0.6	13.2 ± 0.6
DB-05	12.0 ± 0.6	13.6 ± 0.6	13.1 ± 0.6	14.7 ± 0.6
DB-06	11.9 ± 0.6	12.8 ± 0.6	12.9 ± 0.6	14.1 ± 0.6
DB-07	10.2 ± 0.5	11.1 ± 0.5	10.8 ± 0.5	12.2 ± 0.5
ISFSI-NW	10.3 ± 0.6	9.9 ± 0.5	9.1 ± 0.5	9.2 ± 0.5
ISFSI-SW	11.5 ± 0.6	14.2 ± 0.6	9.9 ± 0.6	14.5 ± 0.6
ISFSI-SE	11.9 ± 0.6	14.9 ± 0.7	13.1 ± 0.6	14.2 ± 0.6
ISFSI-NE	10.5 ± 0.6	11.8 ± 0.6	13.0 ± 0.6	11.3 ± 0.5

APPENDIX D

Direct Radiation Monitoring
2005
Palisades Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DP-RS	14.9 ± 0.7	15.4 ± 0.7	15.9 ± 0.7	15.3 ± 0.7
DP-01	14.3 ± 0.7	13.6 ± 0.7	16.1 ± 0.7	14.0 ± 0.6
DP-02	13.6 ± 0.7	13.1 ± 0.7	14.4 ± 0.7	12.9 ± 0.6
DP-03	13.8 ± 0.7	14.4 ± 0.7	14.7 ± 0.7	13.8 ± 0.6
DP-04	13.5 ± 0.7	12.5 ± 0.6	15.2 ± 0.7	13.6 ± 0.6
DP-05	13.5 ± 0.7	11.6 ± 0.6	14.2 ± 0.7	12.3 ± 0.6
DP-06	12.4 ± 0.6	12.8 ± 0.7	13.0 ± 0.6	13.2 ± 0.6
DP-07	12.3 ± 0.6	12.2 ± 0.6	15.0 ± 0.7	12.0 ± 0.6
DP-08	15.2 ± 0.7	15.5 ± 0.7	15.6 ± 0.7	15.3 ± 0.7
DP-09	13.7 ± 0.7	13.7 ± 0.7	14.4 ± 0.7	12.7 ± 0.6
DP-10	13.9 ± 0.7	12.1 ± 0.6	14.7 ± 0.7	12.4 ± 0.6
DP-11	17.3 ± 0.8	16.3 ± 0.7	18.6 ± 0.8	16.6 ± 0.7
DP-12	15.1 ± 0.7	14.1 ± 0.7	16.3 ± 0.7	14.8 ± 0.7
DP-13	14.6 ± 0.7	14.9 ± 0.7	15.9 ± 0.7	14.9 ± 0.7
DP-14	15.1 ± 0.7	14.9 ± 0.7	18.8 ± 0.8	14.9 ± 0.7

APPENDIX D

Direct Radiation Monitoring
2005
D. C. Cook Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DC-RS	16.8 ± 0.8	18.0 ± 0.8	17.2 ± 0.8	15.7 ± 0.7
DC-01	11.6 ± 0.7	12.2 ± 0.7	13.2 ± 0.7	12.5 ± 0.7
DC-02	13.5 ± 0.7	12.0 ± 0.7	14.8 ± 0.7	12.8 ± 0.7
DC-03	12.3 ± 0.7	12.2 ± 0.7	13.3 ± 0.7	12.7 ± 0.7
DC-04	14.6 ± 0.8	15.3 ± 0.8	16.7 ± 0.8	15.4 ± 0.7
DC-05	12.5 ± 0.7	12.4 ± 0.7	13.8 ± 0.7	12.7 ± 0.7
DC-06	12.9 ± 0.7	16.3 ± 0.8	13.9 ± 0.7	IF
DC-07	14.3 ± 0.8	13.3 ± 0.7	15.0 ± 0.7	13.8 ± 0.7
DC-08	12.1 ± 0.7	12.6 ± 0.7	12.6 ± 0.7	13.4 ± 0.7
DC-09	16.7 ± 0.8	13.8 ± 0.7	19.4 ± 0.9	13.5 ± 0.7
DC-10	16.8 ± 0.8	15.4 ± 0.8	18.8 ± 0.8	15.4 ± 0.7
DC-11	13.9 ± 0.7	14.1 ± 0.7	15.7 ± 0.8	13.7 ± 0.7
DC-12	11.8 ± 0.7	12.2 ± 0.7	13.7 ± 0.7	12.4 ± 0.7
DC-13	12.2 ± 0.7	17.1 ± 0.8	13.0 ± 0.7	17.5 ± 0.8
DC-14	13.7 ± 0.7	13.9 ± 0.7	14.9 ± 0.7	14.8 ± 0.7

IF – Instrument Failure

APPENDIX D

Direct Radiation Monitoring
2005
Fermi 2 Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DF-RS	19.6 ± 0.7	18.2 ± 0.8	21.0 ± 0.8	21.4 ± 0.8
DF-01	15.1 ± 0.7	15.2 ± 0.7	16.6 ± 0.7	14.7 ± 0.7
DF-02	13.7 ± 0.6	14.6 ± 0.6	16.0 ± 0.7	13.8 ± 0.6
DF-03	17.6 ± 0.7	13.7 ± 0.6	18.5 ± 0.7	13.5 ± 0.6
DF-04	DM	15.0 ± 0.7	17.0 ± 0.7	15.2 ± 0.7
DF-05	17.6 ± 0.7	17.6 ± 0.7	19.0 ± 0.7	16.6 ± 0.7
DF-06	16.5 ± 0.7	17.2 ± 0.7	19.5 ± 0.8	17.5 ± 0.7
DF-07	17.4 ± 0.7	17.0 ± 0.7	19.5 ± 0.8	17.7 ± 0.7
DF-08	15.7 ± 0.7	15.7 ± 0.7	18.7 ± 0.7	15.1 ± 0.7
DF-09	19.1 ± 0.8	16.3 ± 0.7	21.0 ± 0.8	17.5 ± 0.8
DF-10	15.0 ± 0.7	14.6 ± 0.7	17.0 ± 0.7	14.6 ± 0.7
DF-11	13.3 ± 0.6	12.7 ± 0.6	14.7 ± 0.6	12.6 ± 0.6
DF-12	16.1 ± 0.7	16.9 ± 0.7	18.4 ± 0.7	17.4 ± 0.8
DF-13	15.9 ± 0.7	14.2 ± 0.6	17.4 ± 0.7	15.9 ± 0.7
DF-14	17.2 ± 0.7	16.4 ± 0.7	20.0 ± 0.8	16.8 ± 0.7
DF-15	14.5 ± 0.6	16.0 ± 0.7	17.2 ± 0.7	16.3 ± 0.7

DM – Dosimeter Missing

APPENDIX D

Direct Radiation Monitoring
2005
Lansing Background Reference

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DL-1	16.6 ± 0.5	16.7 ± 0.5	17.7 ± 0.5	17.5 ± 0.5
DL-1	17.9 ± 0.5	17.8 ± 0.5	18.0 ± 0.5	17.3 ± 0.5
DL-1	16.6 ± 0.5	18.1 ± 0.5	17.4 ± 0.5	17.1 ± 0.5

APPENDIX D

Direct Radiation Monitoring
2006
Big Rock Point Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DB-RS	13.2 ± 0.6	14.4 ± 0.6	11.9 ± 0.6	
DB-01	13.6 ± 0.6	14.9 ± 0.6	13.1 ± 0.6	
DB-02	12.5 ± 0.6	13.4 ± 0.6	12.9 ± 0.6	
DB-03	12.6 ± 0.6	14.1 ± 0.6	13.0 ± 0.6	
DB-04	12.3 ± 0.5	13.0 ± 0.6	11.5 ± 0.6	
DB-05	12.1 ± 0.6	14.2 ± 0.6	11.8 ± 0.6	
DB-06	11.9 ± 0.6	13.4 ± 0.6	11.8 ± 0.6	
DB-07	10.9 ± 0.6	11.6 ± 0.5	10.7 ± 0.6	
ISFSI-NW	9.8 ± 0.5	9.5 ± 0.5	10.2 ± 0.6	10.3 ± 0.5
ISFSI-SW	12.8 ± 0.6	14.2 ± 0.6	10.3 ± 0.6	14.8 ± 0.6
ISFSI-SE	13.2 ± 0.6	15.2 ± 0.6	13.7 ± 0.6	16.0 ± 0.7
ISFSI-NE	10.7 ± 0.6	11.7 ± 0.6	13.6 ± 0.6	11.6 ± 0.5

APPENDIX D

Direct Radiation Monitoring
2006
Palisades Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DP-RS	15.9 ± 0.7	16.2 ± 0.7	16.0 ± 0.7	15.0 ± 0.7
DP-01	16.2 ± 0.7	14.2 ± 0.7	15.6 ± 0.7	13.9 ± 0.7
DP-02	15.2 ± 0.7	19.2 ± 0.8	13.9 ± 0.6	12.9 ± 0.7
DP-03	14.9 ± 0.7	14.7 ± 0.7	14.6 ± 0.6	13.6 ± 0.7
DP-04	14.2 ± 0.7	13.7 ± 0.6	14.8 ± 0.6	13.7 ± 0.7
DP-05	14.3 ± 0.7	12.7 ± 0.6	14.5 ± 0.6	12.6 ± 0.7
DP-06	14.0 ± 0.7	13.3 ± 0.6	13.6 ± 0.6	12.8 ± 0.7
DP-07	14.3 ± 0.7	12.3 ± 0.6	13.7 ± 0.6	12.5 ± 0.7
DP-08	14.8 ± 0.7	15.7 ± 0.7	15.0 ± 0.6	14.8 ± 0.7
DP-09	14.6 ± 0.7	13.5 ± 0.6	13.5 ± 0.6	12.8 ± 0.7
DP-10	14.2 ± 0.7	12.8 ± 0.6	14.0 ± 0.6	11.8 ± 0.6
DP-11	17.8 ± 0.8	16.8 ± 0.7	17.9 ± 0.7	15.6 ± 0.7
DP-12	16.2 ± 0.7	14.7 ± 0.7	16.4 ± 0.7	14.2 ± 0.7
DP-13	14.9 ± 0.7	15.6 ± 0.7	15.0 ± 0.6	14.8 ± 0.7
DP-14	16.0 ± 0.7	16.0 ± 0.7	16.4 ± 0.7	15.6 ± 0.7

APPENDIX D

Direct Radiation Monitoring
2006
D. C. Cook Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DC-RS	16.6 ± 0.8	14.3 ± 0.7	16.9 ± 0.7	13.7 ± 0.7
DC-01	13.2 ± 0.7	13.1 ± 0.7	13.8 ± 0.7	13.2 ± 0.7
DC-02	14.1 ± 0.7	13.4 ± 0.7	14.7 ± 0.7	12.8 ± 0.7
DC-03	13.9 ± 0.7	12.6 ± 0.7	14.8 ± 0.7	14.3 ± 0.7
DC-04	16.4 ± 0.8	15.5 ± 0.7	16.3 ± 0.7	16.1 ± 0.8
DC-05	13.8 ± 0.7	12.8 ± 0.7	14.5 ± 0.7	12.9 ± 0.7
DC-06	14.4 ± 0.8	14.8 ± 0.7	14.2 ± 0.7	14.9 ± 0.7
DC-07	15.0 ± 0.8	14.5 ± 0.7	15.0 ± 0.7	13.9 ± 0.7
DC-08	13.6 ± 0.7	13.3 ± 0.7	13.0 ± 0.6	13.6 ± 0.7
DC-09	19.0 ± 0.9	13.9 ± 0.7	19.2 ± 0.8	15.0 ± 0.7
DC-10	18.8 ± 0.9	16.3 ± 0.7	19.1 ± 0.8	15.7 ± 0.8
DC-11	14.7 ± 0.8	14.3 ± 0.7	16.2 ± 0.7	14.7 ± 0.7
DC-12	12.9 ± 0.7	12.3 ± 0.7	13.4 ± 0.7	13.3 ± 0.7
DC-13	13.0 ± 0.7	17.4 ± 0.8	13.3 ± 0.7	17.4 ± 0.8
DC-14	15.5 ± 0.8	13.4 ± 0.7	14.7 ± 0.7	14.7 ± 0.7

APPENDIX D

Direct Radiation Monitoring
2006
Fermi 2 Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DF-RS	19.7 ± 0.8	14.3 ± 0.7	15.7 ± 0.8	18.1 ± 0.7
DF-01	19.7 ± 0.8	14.9 ± 0.7	13.4 ± 0.7	14.8 ± 0.6
DF-02	14.5 ± 0.7	13.5 ± 0.7	13.2 ± 0.7	14.4 ± 0.6
DF-03	18.1 ± 0.8	13.5 ± 0.7	14.9 ± 0.7	13.6 ± 0.6
DF-04	16.2 ± 0.7	14.8 ± 0.7	14.5 ± 0.7	15.7 ± 0.7
DF-05	17.3 ± 0.7	16.5 ± 0.8	15.9 ± 0.8	17.0 ± 0.7
DF-06	18.4 ± 0.8	16.2 ± 0.8	17.1 ± 0.8	17.4 ± 0.7
DF-07	18.2 ± 0.8	16.5 ± 0.8	17.1 ± 0.8	17.6 ± 0.7
DF-08	17.0 ± 0.7	16.3 ± 0.8	15.3 ± 0.8	15.7 ± 0.7
DF-09	19.8 ± 0.8	17.4 ± 0.8	18.0 ± 0.8	17.7 ± 0.7
DF-10	15.9 ± 0.7	15.5 ± 0.7	13.0 ± 0.7	15.8 ± 0.7
DF-11	13.2 ± 0.6	13.0 ± 0.7	11.1 ± 0.7	13.8 ± 0.6
DF-12	16.7 ± 0.7	17.0 ± 0.8	14.7 ± 0.7	17.3 ± 0.7
DF-13	16.4 ± 0.7	15.0 ± 0.7	14.0 ± 0.7	17.9 ± 0.7
DF-14	19.0 ± 0.8	17.4 ± 0.8	16.6 ± 0.8	18.1 ± 0.7
DF-15	16.3 ± 0.7	16.2 ± 0.8	14.0 ± 0.7	15.9 ± 0.7

APPENDIX D

Direct Radiation Monitoring
2006
Lansing Background Reference

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third and Fourth Quarters (mR/90 Days)
DL-1	17.8 ± 0.5	17.7 ± 0.5	17.0 ± 0.5
DL-1	18.0 ± 0.5	17.4 ± 0.5	17.5 ± 0.5
DL-1	17.6 ± 0.5	18.5 ± 0.6	17.1 ± 0.5

APPENDIX D

Direct Radiation Monitoring
2006
Big Rock Point Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DB-RS	13.2 ± 0.6	14.4 ± 0.6	11.9 ± 0.6	
DB-01	13.6 ± 0.6	14.9 ± 0.6	13.1 ± 0.6	
DB-02	12.5 ± 0.6	13.4 ± 0.6	12.9 ± 0.6	
DB-03	12.6 ± 0.6	14.1 ± 0.6	13.0 ± 0.6	
DB-04	12.3 ± 0.5	13.0 ± 0.6	11.5 ± 0.6	
DB-05	12.1 ± 0.6	14.2 ± 0.6	11.8 ± 0.6	
DB-06	11.9 ± 0.6	13.4 ± 0.6	11.8 ± 0.6	
DB-07	10.9 ± 0.6	11.6 ± 0.5	10.7 ± 0.6	
ISFSI-NW	9.8 ± 0.5	9.5 ± 0.5	10.2 ± 0.6	10.3 ± 0.5
ISFSI-SW	12.8 ± 0.6	14.2 ± 0.6	10.3 ± 0.6	14.8 ± 0.6
ISFSI-SE	13.2 ± 0.6	15.2 ± 0.6	13.7 ± 0.6	16.0 ± 0.7
ISFSI-NE	10.7 ± 0.6	11.7 ± 0.6	13.6 ± 0.6	11.6 ± 0.5

APPENDIX D

Direct Radiation Monitoring
2006
Palisades Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DP-RS	15.9 ± 0.7	16.2 ± 0.7	16.0 ± 0.7	15.0 ± 0.7
DP-01	16.2 ± 0.7	14.2 ± 0.7	15.6 ± 0.7	13.9 ± 0.7
DP-02	15.2 ± 0.7	19.2 ± 0.8	13.9 ± 0.6	12.9 ± 0.7
DP-03	14.9 ± 0.7	14.7 ± 0.7	14.6 ± 0.6	13.6 ± 0.7
DP-04	14.2 ± 0.7	13.7 ± 0.6	14.8 ± 0.6	13.7 ± 0.7
DP-05	14.3 ± 0.7	12.7 ± 0.6	14.5 ± 0.6	12.6 ± 0.7
DP-06	14.0 ± 0.7	13.3 ± 0.6	13.6 ± 0.6	12.8 ± 0.7
DP-07	14.3 ± 0.7	12.3 ± 0.6	13.7 ± 0.6	12.5 ± 0.7
DP-08	14.8 ± 0.7	15.7 ± 0.7	15.0 ± 0.6	14.8 ± 0.7
DP-09	14.6 ± 0.7	13.5 ± 0.6	13.5 ± 0.6	12.8 ± 0.7
DP-10	14.2 ± 0.7	12.8 ± 0.6	14.0 ± 0.6	11.8 ± 0.6
DP-11	17.8 ± 0.8	16.8 ± 0.7	17.9 ± 0.7	15.6 ± 0.7
DP-12	16.2 ± 0.7	14.7 ± 0.7	16.4 ± 0.7	14.2 ± 0.7
DP-13	14.9 ± 0.7	15.6 ± 0.7	15.0 ± 0.6	14.8 ± 0.7
DP-14	16.0 ± 0.7	16.0 ± 0.7	16.4 ± 0.7	15.6 ± 0.7

APPENDIX D

Direct Radiation Monitoring
2006
D. C. Cook Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DC-RS	16.6 ± 0.8	14.3 ± 0.7	16.9 ± 0.7	13.7 ± 0.7
DC-01	13.2 ± 0.7	13.1 ± 0.7	13.8 ± 0.7	13.2 ± 0.7
DC-02	14.1 ± 0.7	13.4 ± 0.7	14.7 ± 0.7	12.8 ± 0.7
DC-03	13.9 ± 0.7	12.6 ± 0.7	14.8 ± 0.7	14.3 ± 0.7
DC-04	16.4 ± 0.8	15.5 ± 0.7	16.3 ± 0.7	16.1 ± 0.8
DC-05	13.8 ± 0.7	12.8 ± 0.7	14.5 ± 0.7	12.9 ± 0.7
DC-06	14.4 ± 0.8	14.8 ± 0.7	14.2 ± 0.7	14.9 ± 0.7
DC-07	15.0 ± 0.8	14.5 ± 0.7	15.0 ± 0.7	13.9 ± 0.7
DC-08	13.6 ± 0.7	13.3 ± 0.7	13.0 ± 0.6	13.6 ± 0.7
DC-09	19.0 ± 0.9	13.9 ± 0.7	19.2 ± 0.8	15.0 ± 0.7
DC-10	18.8 ± 0.9	16.3 ± 0.7	19.1 ± 0.8	15.7 ± 0.8
DC-11	14.7 ± 0.8	14.3 ± 0.7	16.2 ± 0.7	14.7 ± 0.7
DC-12	12.9 ± 0.7	12.3 ± 0.7	13.4 ± 0.7	13.3 ± 0.7
DC-13	13.0 ± 0.7	17.4 ± 0.8	13.3 ± 0.7	17.4 ± 0.8
DC-14	15.5 ± 0.8	13.4 ± 0.7	14.7 ± 0.7	14.7 ± 0.7

APPENDIX D

Direct Radiation Monitoring
2006
Fermi 2 Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DF-RS	19.7 ± 0.8	14.3 ± 0.7	15.7 ± 0.8	18.1 ± 0.7
DF-01	19.7 ± 0.8	14.9 ± 0.7	13.4 ± 0.7	14.8 ± 0.6
DF-02	14.5 ± 0.7	13.5 ± 0.7	13.2 ± 0.7	14.4 ± 0.6
DF-03	18.1 ± 0.8	13.5 ± 0.7	14.9 ± 0.7	13.6 ± 0.6
DF-04	16.2 ± 0.7	14.8 ± 0.7	14.5 ± 0.7	15.7 ± 0.7
DF-05	17.3 ± 0.7	16.5 ± 0.8	15.9 ± 0.8	17.0 ± 0.7
DF-06	18.4 ± 0.8	16.2 ± 0.8	17.1 ± 0.8	17.4 ± 0.7
DF-07	18.2 ± 0.8	16.5 ± 0.8	17.1 ± 0.8	17.6 ± 0.7
DF-08	17.0 ± 0.7	16.3 ± 0.8	15.3 ± 0.8	15.7 ± 0.7
DF-09	19.8 ± 0.8	17.4 ± 0.8	18.0 ± 0.8	17.7 ± 0.7
DF-10	15.9 ± 0.7	15.5 ± 0.7	13.0 ± 0.7	15.8 ± 0.7
DF-11	13.2 ± 0.6	13.0 ± 0.7	11.1 ± 0.7	13.8 ± 0.6
DF-12	16.7 ± 0.7	17.0 ± 0.8	14.7 ± 0.7	17.3 ± 0.7
DF-13	16.4 ± 0.7	15.0 ± 0.7	14.0 ± 0.7	17.9 ± 0.7
DF-14	19.0 ± 0.8	17.4 ± 0.8	16.6 ± 0.8	18.1 ± 0.7
DF-15	16.3 ± 0.7	16.2 ± 0.8	14.0 ± 0.7	15.9 ± 0.7

APPENDIX D

Direct Radiation Monitoring
2006
Lansing Background Reference

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third and Fourth Quarters (mR/90 Days)
DL-1	17.8 ± 0.5	17.7 ± 0.5	17.0 ± 0.5
DL-1	18.0 ± 0.5	17.4 ± 0.5	17.5 ± 0.5
DL-1	17.6 ± 0.5	18.5 ± 0.6	17.1 ± 0.5

APPENDIX D

Direct Radiation Monitoring
2007
Big Rock Point Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
ISFSI-NW	9.2 ± 0.7	15.5 ± 0.6	10.4 ± 0.6	17.0 ± 0.7
ISFSI-SW	13.8 ± 0.8	14.2 ± 0.6	10.2 ± 0.6	14.8 ± 0.7
ISFSI-SE	13.7 ± 0.8	14.6 ± 0.6	14.3 ± 0.7	15.9 ± 0.7
ISFSI-NE	10.4 ± 0.7	10.5 ± 0.5	14.8 ± 0.7	12.4 ± 0.6

APPENDIX D

Direct Radiation Monitoring
2007
Palisades Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DP-RS	15.2 ± 0.8	15.0 ± 0.6	15.9 ± 0.6	15.8 ± 0.8
DP-01	22.3 ± 1.0	13.6 ± 0.6	16.0 ± 0.6	13.8 ± 0.7
DP-02	16.0 ± 0.8	13.0 ± 0.6	14.3 ± 0.6	13.3 ± 0.7
DP-03	14.2 ± 0.8	13.6 ± 0.6	14.7 ± 0.6	14.4 ± 0.7
DP-04	13.9 ± 0.8	12.9 ± 0.6	15.4 ± 0.6	13.9 ± 0.7
DP-05	13.3 ± 0.7	12.6 ± 0.5	14.5 ± 0.6	12.4 ± 0.6
DP-06	12.9 ± 0.7	12.8 ± 0.5	13.8 ± 0.6	12.9 ± 0.7
DP-07	13.3 ± 0.7	11.3 ± 0.5	13.1 ± 0.6	11.7 ± 0.6
DP-08	14.3 ± 0.8	14.3 ± 0.6	14.8 ± 0.6	14.9 ± 0.7
DP-09	23.6 ± 1.0	13.1 ± 0.6	13.6 ± 0.6	13.0 ± 0.7
DP-10	13.6 ± 0.8	11.7 ± 0.5	14.4 ± 0.6	12.2 ± 0.6
DP-11	17.5 ± 0.8	15.8 ± 0.6	17.3 ± 0.7	16.0 ± 0.8
DP-12	14.8 ± 0.8	14.5 ± 0.6	18.6 ± 0.7	14.2 ± 0.7
DP-13	13.6 ± 0.8	15.4 ± 0.6	15.5 ± 0.6	15.3 ± 0.7
DP-14	15.0 ± 0.8	15.3 ± 0.6	16.7 ± 0.6	15.2 ± 0.7

APPENDIX D

Direct Radiation Monitoring
2007
D. C. Cook Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DC-RS	16.1 ± 0.9	13.2 ± 0.6	16.6 ± 0.7	12.4 ± 0.7
DC-01	11.4 ± 0.8	13.5 ± 0.6	13.3 ± 0.6	12.4 ± 0.7
DC-02	14.1 ± 0.8	12.7 ± 0.6	14.3 ± 0.7	12.9 ± 0.7
DC-03	12.3 ± 0.8	13.0 ± 0.6	13.0 ± 0.6	12.7 ± 0.7
DC-04	14.4 ± 0.8	15.7 ± 0.7	15.6 ± 0.7	15.1 ± 0.8
DC-05	12.3 ± 0.8	12.0 ± 0.6	14.1 ± 0.7	12.3 ± 0.7
DC-06	12.2 ± 0.8	16.2 ± 0.7	13.7 ± 0.6	22.1 ± 1.0
DC-07	14.9 ± 0.9	13.7 ± 0.6	14.6 ± 0.7	12.9 ± 0.7
DC-08	11.7 ± 0.8	13.4 ± 0.6	12.6 ± 0.6	13.1 ± 0.7
DC-09	16.9 ± 0.9	14.1 ± 0.6	18.4 ± 0.8	13.7 ± 0.8
DC-10	16.7 ± 0.9	15.8 ± 0.7	19.0 ± 0.8	14.1 ± 0.8
DC-11	13.8 ± 0.8	13.6 ± 0.6	15.6 ± 0.7	13.6 ± 0.8
DC-12	11.6 ± 0.8	15.5 ± 0.7	12.8 ± 0.6	12.3 ± 0.7
DC-13	10.8 ± 0.8	16.5 ± 0.7	13.4 ± 0.6	16.4 ± 0.8
DC-14	13.0 ± 0.8	13.7 ± 0.6	13.9 ± 0.6	13.1 ± 0.7

APPENDIX D

Direct Radiation Monitoring
2007
Fermi 2 Plant

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DF-RS	18.1 ± 0.8	16.3 ± 0.7	21.0 ± 0.8	18.3 ± 0.8
DF-01	16.0 ± 0.7	14.7 ± 0.7	16.8 ± 0.7	15.1 ± 0.7
DF-02	15.3 ± 0.7	13.7 ± 0.7	15.4 ± 0.7	15.5 ± 0.7
DF-03	17.1 ± 0.7	12.5 ± 0.7	18.5 ± 0.8	13.8 ± 0.6
DF-04	16.6 ± 0.7	14.2 ± 0.7	17.6 ± 0.7	16.0 ± 0.7
DF-05	17.7 ± 0.7	15.5 ± 0.7	18.2 ± 0.7	18.1 ± 0.7
DF-06	17.8 ± 0.7	16.6 ± 0.7	20.4 ± 0.8	19.1 ± 0.8
DF-07	17.4 ± 0.7	16.1 ± 0.7	19.6 ± 0.8	17.8 ± 0.7
DF-08	16.8 ± 0.7	15.5 ± 0.7	18.5 ± 0.8	16.7 ± 0.7
DF-09	19.8 ± 0.8	17.3 ± 0.8	21.5 ± 0.8	18.3 ± 0.8
DF-10	16.5 ± 0.7	14.9 ± 0.7	16.4 ± 0.7	15.5 ± 0.7
DF-11	13.7 ± 0.6	11.6 ± 0.6	14.5 ± 0.7	12.9 ± 0.6
DF-12	16.6 ± 0.7	16.1 ± 0.7	17.6 ± 0.7	17.9 ± 0.8
DF-13	16.4 ± 0.7	13.9 ± 0.7	16.6 ± 0.7	18.2 ± 0.7
DF-14	19.8 ± 0.8	17.1 ± 0.8	20.2 ± 0.8	18.4 ± 0.8
DF-15	14.8 ± 0.7	15.9 ± 0.7	17.2 ± 0.7	17.5 ± 0.7

APPENDIX D

Direct Radiation Monitoring
2007
Lansing Background Reference

DEQ Station Number	First Quarter (mR/90 days)	Second Quarter (mR/90 Days)	Third Quarter (mR/90 Days)	Fourth Quarter (mR/90 Days)
DL-1	17.3 ± 0.5	17.4 ± 0.5	18.7 ± 0.6	17.8 ± 0.5
DL-1	16.9 ± 0.5	17.5 ± 0.5	18.7 ± 0.6	17.9 ± 0.5
DL-1	17.1 ± 0.5	20.4 ± 0.6	18.3 ± 0.5	17.4 ± 0.5