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GENERAL PUBLIC UTILITIES

GPU

GPU Nuclear

GPU Nuclear Corporation
Post Office Box 388
Route 9 South
Forked River, New Jersey 08731-0388
609 971-4000
Writer's Direct Dial Number:

March 1, 1985

Dr. Thomas E. Murley, Administrator
Region I
U.S. Nuclear Regulatory Commission
Docket No. 50-219
631 Park Avenue
King of Prussia, PA 19406

Dear Sir:

Subject: Oyster Creek Nuclear Generating Station
Effluent Release Report

Attached is a copy of the Oyster Creek Effluent Release report for the period covering July 1984 through December 1984. This submittal is made in accordance with 10 CFR 50.36a(a)2 and our Operating License and Technical Specification.

If you have any questions, please do not hesitate to contact Mr. Douglas Moore of our Licensing and Regulatory Affairs Department at 609 971-4630.

Very truly yours,

Peter B. Fiedler
Vice President and Director
Oyster Creek

PBF:DM:dam
Attachment

cc: Director (17 copies)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

NRC Resident Inspectors
Oyster Creek Nuclear Generating Station
Forked River, NJ 08731

NJ Bureau of Radiation Protection
Attn: Chief
Division of Environmental Quality
United Sierra Building
380 Scotch Road
West Trenton, NJ 08625

IE 25

GPU NUCLEAR CORPORATION

OYSTER CREEK NUCLEAR GENERATING STATION

EFFLUENT RELEASE REPORT

1984-2

GPU NUCLEAR CORPORATION

OYSTER CREEK NUCLEAR GENERATING STATION

EFFLUENT RELEASE REPORT

1984-2

SUMMARY

OYSTER CREEK NUCLEAR GENERATING STATION

1984-2 SEMIANNUAL EFFLUENT RELEASE REPORT

The Semiannual Effluent Release Report is submitted to the United States Nuclear Regulatory Commission (NRC) every six months in accordance with the Oyster Creek Nuclear Generating Station (OCNGS) Technical Specifications. It summarizes the radioactive liquid and gaseous effluents released and solid radioactive wastes shipped from the OCNGS. In addition, it describes the results of environmental measurements undertaken to assess the effects, if any, of such radioactive releases to the environment. Samples were collected of environmental media such as air, aquatic sediment, surface water, well water, soil, precipitation, vegetation, and shellfish. These media are sampled on a routine basis at semimonthly, monthly and/or quarterly frequencies at 37 locations. The annual magnitude of effort to collect and analyze the environmental samples is in excess of four man years at a cost exceeding $200,000.00. This report concludes that exposures to man from OCNGS radioactive effluents are well below the federal limits contained in Title 10, Part 50 of the Code of Federal Regulations which are considered by the NRC to be acceptable limits to protect the health and welfare of the public.

For clarity, the report is organized into three parts. Section I provides a summary of plant operations for the reporting period. The

reactor was shutdown during the period from June 1, 1984 through October 28, 1984 for maintenance and refueling. Reactor startup occurred on October 29, 1984 for low power testing. The generator was placed on-line on November 3, 1984.

Section II summarizes the meteorological data and effluents released from the facility for the reporting period. It itemizes gaseous releases of 3930 curies of fission and activation gases, 3.89 curies of non-particulate halogens, 1.96 curies of tritium, and 0.156 curies of particulate radioactivity. In addition, 0.00541 curies of fission and activation products and 4.73 curies of Tritium were released in 30 batch liquid releases. No dissolved gaseous activity was detected in liquid releases during the period. Section II also itemizes 3280 curies of radioactivity, contained in 793 cubic meters of waste, which was shipped offsite in 63 shipments. These releases are similar to or less than releases of nuclear plants of comparable type, age, and size. The report underscores the fact that all effluents released were within the federal regulatory requirements of OCNGS Technical Specifications.

Section III summarizes the results of the Radiological Environmental Monitoring Program (REMP). This section concludes that no radioactive levels in the environment were attributable to facility operations for the reporting period. Natural radioactivity and weapons testing fallout were considered the causes of slightly higher than background readings, where detected. All levels of radioactivity in the environment fall well within the acceptable levels considered by the NRC to safeguard the health and welfare of the general public.

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I. INTRODUCTION

I. INTRODUCTION

The Oyster Creek Nuclear Generating Station has generated electricity since December, 1969. The operating license permits station operation up to a power level of 1930 megawatts (thermal) at a levelized, installed annual capacity of 620 megawatts (electrical). A more detailed description of the facility can be obtained from the Final Environmental Statement.

This report is submitted in accordance with Section 6.9.3 of the Technical Specifications - Appendix A of the Oyster Creek Unit Number 1 Provisional Operating License, DPR-16. Section I includes a brief summary of the plant operating status from June 1, 1984 through December 31, 1984.

Section II follows the format of USNRC Regulatory Guide 1.21 for the provision of summaries of OCNGS gaseous effluents, liquid effluents and solid waste offsite shipments. In addition, this section provides information on meteorological data for the reporting period of July 1, 1984 through December 31, 1984. A description of the meteorological data collection system is provided, as well as joint frequency distribution tables for the various stability classes (in USNRC Regulatory Guide 1.21 format) and cumulative wind roses.

Section III provides a summary of the Oyster Creek Radiological Environmental Monitoring Program and its associated sampling data for the reporting period of June, 1984 through November, 1984 as required by section 4.6.B(3) of the Technical Specifications - Appendix A.

Radiological Environmental data are presented as recommended in proposed USNRC Regulatory Guide 4.8. This section also relates plant effluent releases to radiological environmental data.

PLANT OPERATIONS SUMMARY

June 1, 1984	Reactor Shutdown - Maintenance and Refueling Outage
June 15, 1984	Reactor Shutdown
June 30, 1984	Reactor Shutdown
July 15, 1984	Reactor Shutdown
July 31, 1984	Reactor Shutdown
August 15, 1984	Reactor Shutdown
August 31, 1984	Reactor Shutdown
September 15, 1984	Reactor Shutdown
September 30, 1984	Reactor Shutdown
October 15, 1984	Reactor Shutdown
October 29, 1984	Reactor Startup - Low Power
October 31, 1984	Reactor Scram - Low Power
November 1, 1984	Reactor Startup
November 3, 1984	Generator On Line
November 4, 1984	Reactor Shutdown
November 8, 1984	Reactor Startup
November 10, 1984	Reactor Shutdown
November 22, 1984	Reactor Startup
November 30, 1984	Reactor Scram (Testing)
December 3, 1984	Reactor Startup (at 0431) - Low Power
	Reactor Scram (at 1205)
	Reactor Startup (at 2235)
December 4, 1984	Generator On Line
December 15, 1984	Operating at 59% Rated Power
December 31, 1984	Operating at 90% Rated Power

II. EFFLUENT AND WASTE DISPOSAL SUMMARY

EFFLUENT AND WASTE DISPOSAL SUMMARY

A. Gaseous Effluents

During the reporting period, July 1, 1984 through December 31, 1984, 3.93 E3 curies of fission and activation gases, 3.28 E-1 curies of non-particulate halogens (iodines) with half-lives greater than eight days, 1.09 E-1 curies of particulates with half-lives greater than eight days, and 1.96 curies of tritium were released. The maximum hourly release rate of gross activity from the stack was 7.05 E3 microcuries per second which occurred at approximately 2200 on December 11, 1984. The first and second quarter airborne releases for this period are summarized in Tables 1A through 1D.

B. Liquid Effluents

A total of 1.07 E7 liters of water was processed through the radwaste system. Of this, 2.34 E6 liters containing 4.74 curies of activity were released to the environment. The maximum concentration of gross radioactivity (beta-gamma) released to the unrestricted area (average over the period of release) was 2.69 E-8 microcuries per milliliter on July 31, 1984. The first and second quarter liquid releases for this period are summarized in Tables 2A and 2B.

C. Solid

During the reporting period, a total volume of 7.93 E2 cubic meters of solid waste containing 3.28 E3 curies of radioactivity was shipped off site in 63 shipments. No irradiated fuel was shipped. The solid waste shipments are summarized in Table 3.

D. Meteorological Data

During the reporting period, onsite meteorological conditions were monitored and recorded. Joint frequency distribution of 116 meter (380 feet) and 10 meter (33 feet) wind speed and direction per atmospheric stability class per quarter are summarized. Also included are cumulative wind roses for 10 meter (33 feet) and 116 meter (380 feet) elevations. The meteorological data are summarized in Tables 4 through 9.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SUPPLEMENTAL INFORMATION

FACILITY - Oyster Creek Nuclear Generating Station

LICENSEE - Owner - Jersey Central Power & Light Company

Operator - GPU Nuclear Corporation

1. Regulatory Limits

   a. Fission and Activation Gases:

      Technical Specification 3.6.A.1

      $$Q = \frac{0.21}{E} \text{ Ci/sec}$$

   b. Iodines and particulates, halflives > 8 days:

      Technical Specification 3.6.A.2

      4 uCi/sec

   c. Liquid Effluents:

      Technical Specification 3.6.B.1

      Maximum permissible concentrations,

      Appendix B, Table II, Column 2

      of 10 CFR 20.

2. Maximum Permissible Concentrations (MPC)

   a. Fission and Activation Gases:

      1. First Quarter - Shutdown

      2. Second Quarter - 3.31 E-3 uci/cc

   b. Iodines and Particulates:

      1. First Quarter - 4.24 E-8 uCi/cc

      2. Second Quarter - 4.24 E-8 uCi/cc

c. Liquid Effluents:

From Appendix B, Table II, Column 2, of

10 CFR 20

(NOTE: MPC's for nuclides detected are listed below)

Unit - uCi/ml

H-3	3 E-3	Co-60	5 E-5
Cs-137	2 E-5		

3. Average Energy

a. First Quarter - Shutdown

b. Second Quarter - 6.74 E-1 Mev

4. Measurements and Approximation of Total Radioactivity

a. Fission and Activation Gases:

The incorporation of a weekly grab sample analysis using gamma ray spectrometry with a GeLi Detector, a conversion factor and the continuous recording of the stack effluent on a continuous activity monitor.

b. Iodines:

Semi-weekly sample analysis using gamma ray spectrometry with a GeLi Detector.

c. Particulates:

Semi-weekly sample analysis using gamma ray spectrometry with a GeLi Detector, low background internal proportional beta counter, and a single channel gamma counter.

d. Liquid Effluents:

Analysis per batch release using gamma ray spectrometry with a GeLi Detector, a low background beta counter, and a liquid scintillation counter.

Analysis of Error Associated with the Measurement of Radioactive Materials in Effluents and Solid Wastes

Effluents

All stages of the production of effluent estimates have been assigned an estimated and conservative error potential. Stages include sample collection, radiochemical analysis, and compilation of the effluent estimation process. The use of these error factors assures that facility effluents will not be underestimated.

Solid Waste

The process by which the levels of radioactive materials in solid wastes are estimated is one which requires conservatism throughout. Representative sample analyses and/or surface contamination surveys are combined with estimates of waste volume to provide the level of radioactive materials in solid wastes. Conservative techniques are used in all phases of this process to assure that the amount of radioactive material in solid wastes is not underestimated.

5. Batch Releases

a. Liquid

1. Number of batch releases:

a. First Quarter - 25 releases

b. Second Quarter - 5 releases

2. Total time period for batch releases:

a. First Quarter - 3.77 E3 minutes

b. Second Quarter - 6.47 E2 minutes

3. Maximum time period for a batch release:

a. First Quarter - 2.20 E2 minutes

b. Second Quarter - 1.45 E2 minutes

4. Average time period for a batch release:

a. First Quarter - 1.51 E2 minutes

b. Second Quarter - 1.29 E2 minutes

5. Minimum time period for a batch release:

a. First Quarter - 4.3 E1 minutes

b. Second Quarter - 1.20 E1 minutes

6. Average stream flow during periods of release of effluent in a flowing stream:

a. First Quarter - 2.07 E6 liters/minute

b. Second Quarter - 3.05 E6 liters/minute

6. Abnormal Releases

a. Liquid

1. Number of releases:

None

2. Total activity released:

Not Applicable

b. Gaseous

1. Number of releases:

None

2. Total activity released:

Not Applicable

TABLE 1A
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-2
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	First Quarter	Second Quarter	Est. Total Error %
A. Fission & activation gases				
1. Total release	Ci	< LLD	3.93 E3	3.0 E1
2. Average release rate for period	uCi/sec	-	1.09 E3	
3. Percent of Tech Spec limit	%	-	3.45 E-1	
B. Iodines				
1. Total Iodine-131	Ci	< LLD	3.28 E-1	2.5 E1
2. Average release rate for period	uCi/sec	-	4.12 E-2	
3. Percent of Tech Spec limit*	%	7.70 E-4	1.37	
C. Particulates				
1. Particulates with half-lives > 8 days	Ci	2.45 E-4	1.08 E-1	2.5 E1
2. Average release rate for period	uCi/sec	3.08 E-5	1.36 E-2	
3. Percent of Tech Spec limit*	%	7.70 E-4	1.37	
4. Gross alpha radioactivity	Ci	8.13 E-6	3.81 E-6	
D. Tritium				
1. Total release	Ci	2.63 E-1	1.70	4.0 E1
2. Average release rate for period	uCi/sec	3.31 E-2	2.14 E-1	

* Percent of Tech. Spec. Limit for Iodines and Particulates as Required by Technical Specification 3.6.A.2

TABLE 1B
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-2
GASEOUS EFFLUENTS-ELEVATED RELEASE

CONTINUOUS MODE

Nuclides Released	Unit	First Quarter	Second Quarter		LLD uCi/cc
1. Fission gases					
Krypton-85m	Ci	< LLD	2.58 E2		3.34 E-8
Krypton-87	Ci	< LLD	7.95 E2		9.13 E-8
Krypton-88	Ci	< LLD	8.17 E2		1.39 E-7
Xenon-133	Ci	< LLD	2.89 E2		1.40 E-7
Xenon-135	Ci	< LLD	1.77 E3		3.28 E-8
Xenon-135m	Ci	< LLD	< LLD		6.83 E-8
Xenon-138	Ci	< LLD	< LLD		1.81 E-7
others					
Krypton-89	Ci	< LLD	< LLD		1.07 E-6
Xenon-131m	Ci	< LLD	< LLD		1.64 E-6
Xenon-133m	Ci	< LLD	< LLD		3.03 E-7
Xenon-137	Ci	< LLD	< LLD		6.00 E-7
Total for period	Ci	< LLD	3.93 E3		
2. Iodines					
Iodine-131	Ci	< LLD	3.28 E-1		1.02 E-13
Iodine-133	Ci	< LLD	1.66		1.29 E-13
Iodine-135	Ci	< LLD	1.90		6.12 E-13
Total for period	Ci	< LLD	3.89		

TABLE 1C
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-2
GASEOUS EFFLUENTS-ELEVATED RELEASE

Nuclides Released	Unit	First Quarter	Second Quarter		LLD uCi/cc
3. PARTICULATES					
Strontium-89	Ci	< LLD	1.42 E-4		5.74 E-15
Strontium-90	Ci	1.32 E-6	8.62 E-6		1.84 E-15
Cesium-134	Ci	< LLD	< LLD		1.37 E-13
Cesium-137	Ci	< LLD	5.30 E-5		1.37 E-13
Barium-140	Ci	< LLD	7.40 E-4		2.54 E-13
Lanthanum-140	Ci	< LLD	2.72 E-4		1.10 E-13
OTHERS					
Manganese-54	Ci	< LLD	1.01 E-1		1.30 E-13
Cobalt-60	Ci	2.44 E-4	3.51 E-4		2.70 E-13
Strontium-91	Ci	< LLD	7.48 E-3		4.85 E-13
Technetium-99m	Ci	< LLD	7.97 E-4		4.26 E-14
Iodine-131	Ci	< LLD	2.57 E-3		4.90 E-14
Tellurium-132	Ci	< LLD	1.07 E-3		5.06 E-14
Iodine-133	Ci	< LLD	1.88 E-2		8.07 E-14
Iodine-135	Ci	< LLD	1.86 E-2		3.81 E-13
Cerium-139	Ci	< LLD	3.56 E-3		4.59 E-14
TOTAL	Ci	2.45 E-4	1.55 E-1		
NO OTHER NUCLIDES IDENTIFIED					

TABLE 1D
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-2
GASEOUS EFFLUENTS-GROUND LEVEL RELEASE

Nuclides Released	Unit	First Quarter	Second Quarter		LLD uCi/cc
1. Fission Gases					
TOTAL	Ci	< LLD	< LLD		-
2. Iodines					
Iodine-131	Ci	< LLD	5.30 E-9		2.05 E-14
Iodine-133	Ci	< LLD	4.92 E-8		2.41 E-14
Iodine-135	Ci	< LLD	< LLD		4.51 E-14
TOTAL	Ci	< LLD	5.45 E-8		
3. Particulates					
Strontium-89	Ci	< LLD	9.11 E-8		3.02 E-16
Strontium-90	Ci	< LLD	< LLD		5.20 E-17
Cesium-134	Ci	< LLD	< LLD		2.80 E-14
Cesium-137	Ci	< LLD	< LLD		3.60 E-14
Barium-140	Ci	< LLD	< LLD		7.11 E-14
Lanthanum-140	Ci	< LLD	< LLD		1.75 E-14
TOTAL	Ci	< LLD	9.11 E-8		
NO OTHER NUCLIDES IDENTIFIED					

TABLE 2A
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-2
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	First Quarter	Second Quarter	Est. Total Error %
A. Fission & activation gases				
1. Total releases (not including tritium, gases, alpha)	Ci	5.41 E-3	< LLD	3.0 E1
2. Average diluted concentration during period	uCi/ml	1.64 E-10	-	
3. Percent of applicable limit	%	3.97 E-4	-	
B. Tritium				
1. Total release	Ci	4.24	4.90 E-1	3.0 E1
2. Average diluted concentration during period	uCi/ml	1.29 E-7	4.85 E-9	
3. Percent of applicable limit	%	4.29 E-3	1.62 E-4	
C. Dissolved and entrained gases				
1. Total release	Ci	< LLD	< LLD	3.0 E1
2. Average diluted concentration during period	uCi/ml	-	-	
3. Percent of applicable limit	%	-	-	
D. Gross alpha radioactivity				
1. Total release	Ci	< LLD	< LLD	3.0 E1
E. Volume of waste released (prior to dilution)	liters	1.99 E6	3.48 E5	1.0 E1
F. Volume of dilution water used during period	liters	1.24 E11	3.80 E11	1.0 E1

TABLE 2B
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-2
LIQUID EFFLUENTS

		BATCH MODE			
Nuclides Released	Unit	First Quarter	Second Quarter		LLD uCi/ml
Strontium-89	Ci	< LLD	< LLD		3.08 E-8
Strontium-90	Ci	< LLD	< LLD		8.29 E-9
Cesium-134	Ci	< LLD	< LLD		3.60 E-7
Cesium-137	Ci	7.50 E-4	< LLD		6.49 E-7
Iodine-131	Ci	< LLD	< LLD		2.79 E-7
Cobalt-58	Ci	< LLD	< LLD		4.23 E-7
Cobalt-60	Ci	4.66 E-3	< LLD		1.59 E-6
Iron-59	Ci	< LLD	< LLD		1.05 E-6
Zinc-65	Ci	< LLD	< LLD		1.10 E-6
Manganese-54	Ci	< LLD	< LLD		4.81 E-7
Chromium-51	Ci	< LLD	< LLD		2.24 E-6
Zirconium-95	Ci	< LLD	< LLD		7.92 E-7
Niobium-95	Ci	< LLD	< LLD		3.97 E-7
Molybdenum-99	Ci	< LLD	< LLD		3.34 E-6
Technetium-99m	Ci	< LLD	< LLD		2.30 E-7
Barium-140	Ci	< LLD	< LLD		1.32 E-6
Lanthanum-140	Ci	< LLD	< LLD		4.40 E-7
Cerium-141	Ci	< LLD	< LLD		4.02 E-7
NO OTHER NUCLIDES IDENTIFIED					
TOTAL FOR PERIOD	Ci	5.41 E-3	< LLD		
Xenon-133	Ci	< LLD	< LLD		5.17 E-7
Xenon-135	Ci	< LLD	< LLD		2.75 E-7
NO OTHER NUCLIDES IDENTIFIED					
TOTAL FOR PERIOD	Ci	< LLD	< LLD		

TABLE 3
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984-2
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. Solid waste shipped offsite for burial or disposal (not irradiated fuel)

1. Type of waste	Unit	6-month period	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m^3	1.19 E2	
	Ci	3.71 E2	2.5 E1
b. Dry compressible waste, contaminated equip., etc.	m^3	6.72 E2	
	Ci	9.26	2.5 E1
c. Irradiated components, control rods, etc.	m^3	1.5	
	Ci	2.9 E3	2.5 E1
d. Other (describe)	m^3		
	Ci	-	-

2. Estimate of major nuclide composition (by type of waste)	Percentage	Activity (Ci)	
a. Cobalt-60	6.29 E1	2.33 E2	
Cesium-137	1.04 E1	3.86 E1	
Iron-55	9.43	3.50 E1	
Cesium-134	3.54	1.31 E1	
Manganese-54	2.42	8.98	
b. Cobalt-60	7.28 E1	6.77	
Carbon-14	8.13	7.53 E-1	
Cesium-137	5.67	5.25 E-1	
Technetium-99	4.22	3.91 E-1	
Iodine-129	2.50	2.32 E-1	
c. Iron-55	6.55 E1	1.90 E3	
Cobalt-60	1.86 E1	5.39 E2	
Manganese-54	1.21 E1	3.51 E2	
Nickel-63	2.41	6.99 E1	
Nickel-59	1.93 E-2	5.60 E-1	
d.			

3. Solid Waste Disposition		
Number of Shipments	Mode of Transportation	Destination
57	Motor Vehicle	Barnwell, SC
6	Motor Vehicle	Richland, WA

B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
None	-	-

Meteorological Data

Abstract

The Oyster Creek Nuclear Generating Station obtains meteorological data from the site meteorological instrument tower (Figure 1 - Page 23). The tower is 400 feet tall and located approximately west-northwest of the site at a distance of 2529 feet from the stack. The following instrumentation is located on the tower:

HEIGHT OF INSTRUMENT ABOVE GROUND	INSTRUMENT
33 feet (10 meters)	Wind Speed
	Wind Direction
	Temperature
	Dew Point
150 feet (46 meters)	Wind Speed
	Wind Direction
	Temperature
380 feet (116 meters)	Wind Speed
	Wind Direction
	Temperature
	Dew Point

There are redundant wind speed, wind direction, and temperature sensors at the 33 and 380 foot levels to insure an efficient percentage of data recovery and to comply with regulatory requirements. In

addition, a processor calculates temperature differentials (ΔT) between (150-33) and (380-33)-foot levels. These data are then stored in the on-site computer and are used to determine atmospheric stability and, in turn, atmospheric dispersion. In addition, the 380-foot level wind speed and wind direction and the (380-33)-foot level temperature differential is monitored and recorded at the Oyster Creek Control Room.

The meteorological tower sensors, chart recorders, and processors are calibrated four times a year, according to the draft NRC Regulatory Guide 1.23. Periodic tower inspections are done to insure maximum data integrity. The average data recovery is 94% for the six month period from July through December of 1984 (Table 9 - Page 46). Meteorological data are an integral part of the off-site dose assessment program. Occasionally lower percentages of data recovery, as in the month of October, are the result of sensor, computer hardware, and/or chart recorder malfunctions.

Data Analysis

During the first quarter of the period (June through September) the predominant wind direction is from the northwest and southwest. These two directions are the climatological norm for this region. The former wind direction is characteristic of the dominating continental polar air masses that follow cold frontal passages. The latter wind direction is best represented by maritime tropical air that is usually present prior to cold frontal passages. The relative maxima of wind directon from the south is the end result of the sea-breeze phenomenon. At the height of this mesoscale effect (approximately 2:00 to 4:00 in the afternoon) the wind will parallel the coast, an end result created due to the uneven

heating between land and sea and the natural rotation of the earth. The second quarter (October through December) is usually described as a transition period between the previously described summer patterns and those found in winter (west-northwest and northerly). However, the entire second quarter was somewhat milder than usual, and, as seen in the wind roses (Figures 4 and 5 - Pages 43 and 44), directions seemed to represent those conditions found during the summer months.

Other characteristics for the entire six-month period include a small maxima of wind direction from the northeast. This is due to the air flow around large high pressure systems. Periods with this onshore fetch have characteristic low clouds, drizzle and fog (stable atmospheres).

Precipitation for the period was well below normal (13.13 inches). The normal six-month rainfall from July through December is 22.01 inches. On a month by month basis, Figure 6, Page 45, indicates that the greatest monthly precipitation occurred during July. This is the only above average month (as compared to the Atlantic City NWS). During summer months precipitation is generally characterized by events of short duration but strong intensity (convective showers). With this type of precipitation event, there will be increased particulate fallout (washout) from the atmosphere, which has implications for radionuclide deposition. During the summer, marine air, which is stable, will generally suppress these convective-type storms and decrease precipitation at most coastal locations. The sea-breeze can produce the same result. This effect can vary from right along the coast up to 12 miles inland. Rainfall events during the six-month period were, for the most part, due to extratropical storms of light to moderate intensity and long duration, especially during the second quarter.

FIGURE 1
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION

METEOROLOGICAL DATA:
SCHEMATIC DIAGRAM
OF
SYSTEM COMPONENTS AND INFORMATION FLOW

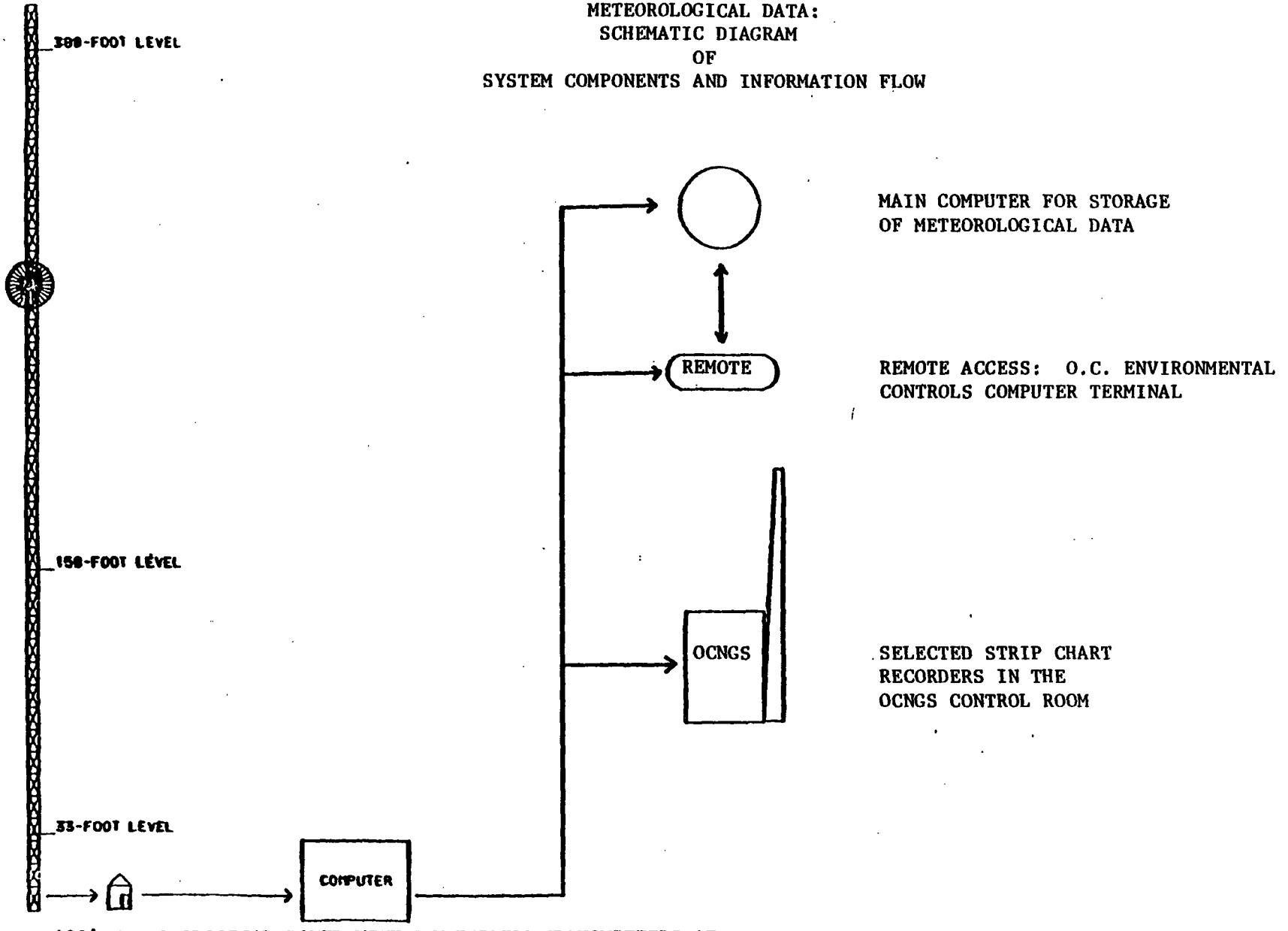

TABLE 4

METEOROLOGICAL CLASSIFICATIONS OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	6θ[1] (degrees)	Temperature Change With Height (°F/100 ft)
Extremely Unstable	A	25.0	-1.0
Moderately Unstable	B	20.0	-1.0 to -0.9
Slightly Unstable	C	15.0	-0.9 to -0.8
Neutral	D	10.0	-0.8 to -0.3
Slightly Stable	E	5.0	-0.3 to 0.8
Moderately Stable	F	2.5	0.8 to 2.2
Extremely Stable	G	1.7	2.2

[1] Standard deviation of horizontal wind direction fluctuation over a period of 15 minutes to 1 hour. The values shown are average for each stability classification.

TABLE 5

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and Wind Direction 33ft versus Delta Temperature 150-33ft for the period 7/1/84 - 9/30/84

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 8407010I-8409302I
STABILITY CLASS: A DT/DZ
ELEVATION: SPEED.SPD33A DIRECTION.DIR33A LAPSE.DT150

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	3	13	7	0	0	0	23
NNE	0	10	0	1	0	0	11
NE	2	21	17	3	0	0	43
ENE	3	20	17	0	0	0	40
E	1	26	15	0	0	0	42
ESE	3	17	0	0	0	0	20
SE	0	20	32	0	0	0	52
SSE	2	0	23	1	0	0	34
S	0	10	40	23	3	0	86
SSW	0	10	24	7	0	0	41
SW	0	13	16	1	0	0	30
WSW	4	21	24	0	0	0	49
W	3	20	14	0	0	0	37
WNW	1	14	5	0	0	0	20
NW	1	24	20	0	0	0	45
NNW	1	26	19	0	0	0	46
TOTAL	28	286	308	36	3	0	684

PERIODS OF CALM(HOURS): 16
VARIABLE DIRECTION: 12
HOURS OF MISSING DATA: 181

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 8407010I-8409302I
STABILITY CLASS: B DT/DZ
ELEVATION: SPEED.SPD33A DIRECTION.DIR33A LAPSE.DT150

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	2	4	0	0	0	0	6
NNE	2	1	0	0	0	0	3
NE	0	5	0	0	0	0	5
ENE	0	4	1	0	0	0	6
E	0	3	2	0	0	0	5
ESE	0	0	0	0	0	0	0
SE	0	3	0	0	0	0	3
SSE	0	1	3	0	0	0	4
S	0	4	7	1	0	0	12
SSW	0	1	4	3	0	0	8
SW	0	3	3	1	0	0	7
WSW	0	3	2	0	0	0	5
W	0	2	0	0	0	0	2
WNW	2	2	2	0	0	0	6
NW	2	0	1	0	0	0	3
NNW	0	5	1	0	0	0	6
TOTAL	8	51	26	5	0	0	90

PERIODS OF CALM(HOURS): 16
VARIABLE DIRECTION: 2
HOURS OF MISSING DATA: 181

Table 5 - continued

SITE. OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 04070101-04093024
STABILITY CLASS. C DT/DZ
ELEVATION. SPEED.SPD33A DIRECTION.DIR33A LAPSE.DT10D

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	1	0	0	0	0	2
NNE	0	0	1	0	0	0	1
NE	0	0	2	0	0	0	2
ENE	0	1	1	0	0	0	2
E	1	2	0	0	0	0	3
ESE	0	2	0	0	0	0	2
SE	0	1	0	0	0	0	1
SSE	0	1	0	0	0	0	1
S	1	2	5	1	0	0	9
SSW	0	2	3	1	0	0	6
SW	0	1	1	0	0	0	2
WSW	1	1	1	0	0	0	3
W	0	1	0	0	0	0	1
WNW	2	1	1	0	0	0	4
NW	0	1	0	0	0	0	1
NNW	1	2	0	0	0	0	3
TOTAL	7	19	15	2	0	0	43

PERIODS OF CALM HOURS: 16
VARIABLE DIRECTION 2
HOURS OF MISSING DATA. 181

SITE. OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 04070101-04093024
STABILITY CLASS. D DT/DZ
ELEVATION. SPEED.SPD33A DIRECTION.DIR33A LAPSE.DT10D

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	3	21	2	0	0	0	26
NNE	4	3	1	0	0	0	8
NE	5	26	0	0	0	0	30
ENE	3	14	2	0	0	0	19
E	4	7	0	0	0	0	11
ESE	3	10	1	0	0	0	14
SE	3	4	0	0	0	0	7
SSE	4	4	0	0	0	0	8
S	2	20	21	3	0	0	54
SSW	3	23	31	6	3	0	68
SW	5	16	5	0	0	0	26
WSW	4	8	1	0	0	0	14
W	6	6	0	1	0	0	13
WNW	6	5	0	1	0	0	11
NW	1	15	1	0	0	0	17
NNW	3	29	1	1	0	0	34
TOTAL	58	222	74	12	3	0	360

PERIODS OF CALM HOURS: 16
VARIABLE DIRECTION 11
HOURS OF MISSING DATA. 181

Table 5 - continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 04070101-04093024
STABILITY CLASS: E DT/DZ
ELEVATION: SPEED:SPD33A DIRECTION:DIR33A LAPSE:DT150

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	3	8	0	0	0	0	11
NNE	2	6	0	0	0	0	8
NE	3	9	10	0	0	0	22
ENE	10	2	5	0	0	0	17
E	7	6	1	0	0	0	14
ESE	2	2	1	0	0	0	5
SE	3	2	1	0	0	0	6
SSE	3	0	3	0	0	0	16
S	5	13	3	0	0	0	21
SSW	7	44	21	0	0	0	72
SW	0	47	6	0	0	0	61
WSW	10	50	0	0	0	0	60
W	10	13	0	0	0	0	23
WNW	6	8	0	0	0	0	14
NW	12	14	0	0	0	0	26
NNW	6	22	4	0	0	0	32
TOTAL	105	265	55	0	0	0	416

PERIODS OF CALM(HOURS): 16
VARIABLE DIRECTION 22
HOURS OF MISSING DATA: 101

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 04070101-04093024
STABILITY CLASS: F DT/DZ
ELEVATION: SPEED:SPD33A DIRECTION:DIR33A LAPSE:DT150

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	4	2	1	0	0	0	7
NNE	1	0	0	0	0	0	1
NE	2	0	0	0	0	0	2
ENE	0	1	0	0	0	0	1
E	1	1	0	0	0	0	2
ESE	1	0	0	0	0	0	1
SE	2	1	0	0	0	0	3
SSE	2	1	0	0	0	0	3
S	4	5	0	0	0	0	9
SSW	5	7	0	0	0	0	12
SW	4	11	1	0	0	0	16
WSW	13	27	0	0	0	0	40
W	14	6	0	0	0	0	20
WNW	11	8	0	0	0	0	19
NW	10	22	0	0	0	0	32
NNW	4	15	1	0	0	0	20
TOTAL	78	107	3	0	0	0	188

PERIODS OF CALM(HOURS): 16
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 101

Table 5 - continued

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 04070101-04083024
STABILITY CLASS: G DT/DZ
ELEVATION SPEED.SPD33A DIRECTION.DIR33A LAPSE.DT16B

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	3	0	0	0	0	0	3
NNE	1	0	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	1
E	1	1	0	0	0	0	2
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	2	1	0	0	0	0	3
S	7	3	0	0	0	0	10
SSW	0	4	0	0	0	0	13
SW	23	12	0	0	0	0	35
WSW	36	29	0	0	0	0	65
W	53	0	0	0	0	0	62
WNW	46	12	0	0	0	0	58
NW	40	24	0	0	0	0	64
NNW	16	14	1	0	0	0	31
TOTAL	238	109	1	0	0	0	348

PERIODS OF CALM(HOURS): 16
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 101

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 04070101-04083024
STABILITY CLASS: ALL DT/DZ
ELEVATION SPEED.SPD33A DIRECTION.DIR33A LAPSE.DT16B

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	10	40	18	0	0	0	70
NNE	15	25	11	1	0	0	52
NE	12	61	37	3	0	0	113
ENE	17	50	26	0	0	0	93
E	15	46	10	0	0	0	70
ESE	0	36	11	0	0	0	56
SE	0	31	33	0	0	0	72
SSE	13	25	20	1	0	0	68
S	10	65	85	28	3	0	200
SSW	24	93	83	17	3	0	220
SW	40	103	32	2	0	0	177
WSW	76	140	28	0	0	0	244
W	86	57	14	1	0	0	158
WNW	73	58	0	1	0	0	132
NW	66	105	22	0	0	0	193
NNW	31	113	27	1	0	0	172
TOTAL	523	1040	474	85	6	0	2187

PERIODS OF CALM(HOURS): 16
VARIABLE DIRECTION 67
HOURS OF MISSING DATA: 101

TABLE 6

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and Wind Direction 33ft versus Delta Temperature 150-33ft for the Period 10/1/84 - 12/31/84

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 8410010I-84123124
STABILITY CLASS: A DT/DZ
ELEVATION SPEED:SPD33A DIRECTION:DIR33A LAPSE:DT150

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	0	3	0	0	0	12
NNE	2	6	3	2	0	0	13
NE	0	16	7	0	0	0	22
ENE	1	12	5	0	0	0	18
E	1	9	6	0	0	0	16
ESE	0	10	1	0	0	0	10
SE	0	5	7	0	0	0	12
SSE	1	1	3	1	0	0	6
S	0	1	0	0	0	0	17
SSW	0	3	2	3	0	0	8
SW	0	4	6	3	0	0	13
WSW	0	0	12	3	0	0	24
W	0	3	15	11	1	0	30
WNW	0	6	15	11	0	0	32
NW	1	0	15	18	0	0	38
NNW	0	7	0	0	0	0	16
TOTAL	7	116	117	52	1	0	293

PERIODS OF CALM(HOURS): 15
VARIABLE DIRECTION 3
HOURS OF MISSING DATA: 184

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 8410010I-84123124
STABILITY CLASS: B DT/DZ
ELEVATION SPEED:SPD33A DIRECTION:DIR33A LAPSE:DT150

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	3	6	1	0	0	10
NNE	0	1	1	1	0	0	3
NE	0	4	4	1	0	0	9
ENE	0	3	4	0	0	0	7
E	0	2	1	0	0	0	3
ESE	0	2	0	0	0	0	2
SE	0	1	2	0	0	0	3
SSE	0	0	1	3	0	0	4
S	0	2	6	1	0	0	9
SSW	0	2	1	0	0	0	3
SW	0	3	1	0	0	0	4
WSW	0	3	7	1	0	0	11
W	0	1	0	3	0	0	4
WNW	0	2	6	3	0	0	11
NW	0	2	4	1	0	0	7
NNW	0	5	3	0	0	0	8
TOTAL	0	36	47	15	0	0	98

PERIODS OF CALM(HOURS): 15
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 184

Table 6 - continued

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 04100101-04123124
STABILITY CLASS C DT/DZ
ELEVATION SPEED.SPD33A DIRECTION.DIR33A LAPSE.DT150

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	1	0	0	0	0	1
NNE	0	1	2	1	0	0	4
NE	1	0	0	1	0	0	2
ENE	0	4	3	0	0	0	7
E	1	1	0	0	0	0	2
ESE	0	3	0	0	0	0	3
SE	0	1	0	0	0	0	1
SSE	0	1	0	1	0	0	2
S	0	0	0	1	0	0	1
SSW	0	2	1	1	0	0	4
SW	0	2	0	0	0	0	2
WSW	0	3	1	1	0	0	5
W	0	1	0	1	0	0	2
WNW	1	0	3	2	0	0	6
NW	0	2	0	0	0	0	2
NNW	0	2	2	0	0	0	4
TOTAL	3	24	12	9	0	0	48

PERIODS OF CALM(HOURS): 15
VARIABLE DIRECTION 1
HOURS OF MISSING DATA: 184

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 04100101-04123124
STABILITY CLASS D DT/DZ
ELEVATION SPEED.SPD33A DIRECTION.DIR33A LAPSE.DT150

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	3	11	15	0	0	0	29
NNE	4	9	11	7	0	0	31
NE	3	18	14	4	0	0	39
ENE	1	12	9	0	0	0	22
E	1	13	3	4	0	0	21
ESE	1	9	5	0	0	0	15
SE	1	6	2	2	0	0	10
SSE	1	7	2	0	0	0	10
S	3	11	11	5	0	0	30
SSW	1	14	9	4	0	0	28
SW	1	15	9	4	0	0	29
WSW	2	18	15	3	0	0	38
W	3	9	10	6	0	0	28
WNW	3	11	20	1	0	0	35
NW	5	15	12	2	0	0	34
NNW	4	16	11	0	0	0	31
TOTAL	37	181	156	42	0	0	416

PERIODS OF CALM(HOURS): 15
VARIABLE DIRECTION 6
HOURS OF MISSING DATA: 184

Table 6 - continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 84100101-84123124
STABILITY CLASS = E DT/DZ
ELEVATION: SPEED:SPD33A DIRECTION:DIR33A LAPSE:DT10D

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	5	6	1	0	0	0	12
NNE	7	12	2	0	0	0	21
NE	6	21	5	0	0	0	32
ENE	2	18	0	0	0	0	20
E	5	11	0	0	0	0	20
ESE	2	0	18	2	0	0	22
SE	2	0	2	5	0	0	17
SSE	3	10	2	0	0	0	15
S	4	22	0	0	0	0	34
SSW	4	25	27	5	0	0	61
SW	4	17	30	1	0	0	82
WSW	10	15	8	0	0	0	33
W	4	24	14	0	0	0	42
WNW	7	16	22	4	0	0	49
NW	5	20	5	1	0	0	31
NNW	6	20	7	0	0	0	33
TOTAL	76	253	161	18	0	0	508

PERIODS OF CALM(HOURS): 15
VARIABLE DIRECTION 13
HOURS OF MISSING DATA: 184

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 84100101-84123124
STABILITY CLASS = F DT/DZ
ELEVATION: SPEED:SPD33A DIRECTION:DIR33A LAPSE:DT10D

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	2	8	0	0	0	0	10
NNE	2	3	0	0	0	0	5
NE	0	3	0	0	0	0	3
ENE	2	1	0	0	0	0	3
E	0	0	0	0	0	0	0
ESE	1	1	1	0	0	0	3
SE	3	1	0	0	0	0	4
SSE	3	15	0	0	0	0	18
S	4	11	0	0	0	0	15
SSW	2	10	0	0	0	0	12
SW	7	15	3	0	0	0	25
WSW	7	20	1	0	0	0	37
W	3	22	0	0	0	0	25
WNW	6	16	3	0	0	0	25
NW	9	16	1	0	0	0	26
NNW	6	10	0	0	0	0	16
TOTAL	57	161	9	0	0	0	227

PERIODS OF CALM(HOURS): 15
VARIABLE DIRECTION 6
HOURS OF MISSING DATA: 184

Table 6 - continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 84100101-84123124
STABILITY CLASS: G DT/DZ
ELEVATION SPEED:SPD33A DIRECTION:DIR33A LAPSE:DT15B

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	7	5	2	0	0	0	14
NNE	2	1	0	0	0	0	3
NE	3	1	0	0	0	0	4
ENE	2	1	0	0	0	0	3
E	0	1	0	0	0	0	1
ESE	1	0	0	0	0	0	1
SE	2	1	0	0	0	0	3
SSE	2	2	0	0	0	0	4
S	4	4	0	0	0	0	8
SSW	7	2	0	0	0	0	9
SW	13	24	0	0	0	0	37
WSW	40	88	0	0	0	0	128
W	46	35	0	0	0	0	81
WNW	28	14	0	0	0	0	42
NW	42	23	0	0	0	0	65
NNW	24	15	0	0	0	0	39
TOTAL	225	280	2	0	0	0	434

PERIODS OF CALM(HOURS): 18
VARIABLE DIRECTION 12
HOURS OF MISSING DATA. 184

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 84100101-84123124
STABILITY CLASS ALL DT/DZ
ELEVATION: SPEED:SPD33A DIRECTION:DIR33A LAPSE:DT15B

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	10	42	27	1	0	0	80
NNE	17	33	10	11	0	0	69
NE	13	62	36	6	0	0	111
ENE	0	51	30	0	0	0	80
E	0	37	10	4	0	0	66
ESE	0	37	15	2	0	0	86
SE	0	22	13	7	0	0	58
SSE	10	36	0	5	0	0	80
S	15	51	33	15	0	0	114
SSW	14	58	48	13	0	0	128
SW	25	88	49	0	0	0	162
WSW	59	149	44	0	0	0	268
W	56	86	38	21	1	0	212
WNW	45	65	60	21	0	0	200
NW	62	87	37	14	0	0	200
NNW	48	75	32	0	0	0	147
TOTAL	483	980	584	136	1	0	2024

PERIODS OF CALM(HOURS): 15
VARIABLE DIRECTION 41
HOURS OF MISSING DATA: 184

TABLE 7

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and Wind Direction 380ft versus Delta Temperature 380-33ft for the Period 7/1/84 - 9/30/84

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 04070101-04093024
STABILITY CLASS A DT/DZ
ELEVATION SPEED.SP380A DIRECTION.DR380A LAPSE.DT380A

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	2	1	0	3
ENE	0	0	1	1	0	0	2
E	0	0	3	0	0	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	0	1	0	0	1
SSE	0	0	1	1	0	0	2
S	0	0	0	6	0	0	6
SSW	0	0	2	0	0	0	2
SW	0	1	4	1	0	0	6
WSW	0	0	0	1	0	0	1
W	0	0	0	4	0	0	4
WNW	0	0	0	3	0	0	3
NW	0	0	0	5	1	0	6
NNW	0	0	0	4	1	0	5
TOTAL	0	1	11	29	3	0	44

PERIODS OF CALM(HOURS) 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA. 185

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 04070101-04093024
STABILITY CLASS B DT/DZ
ELEVATION SPEED.SP380A DIRECTION.DR380A LAPSE.DT380A

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	3	1	0	0	4
NNE	0	0	5	0	0	0	5
NE	0	0	5	4	0	0	9
ENE	0	0	0	6	0	0	10
E	0	2	10	1	0	0	10
ESE	0	2	4	1	0	0	7
SE	0	1	11	3	0	0	10
SSE	0	3	6	4	0	0	13
S	0	0	4	11	7	0	22
SSW	0	0	1	0	1	1	12
SW	0	1	4	4	1	0	10
WSW	1	1	0	10	0	0	20
W	0	1	7	2	1	0	11
WNW	0	0	5	0	0	0	5
NW	0	0	0	7	0	0	10
NNW	0	0	1	7	0	0	8
TOTAL	1	11	86	78	10	1	180

PERIODS OF CALM(HOURS). 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA. 185

Table 7 - continued

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 84070101-84093024
STABILITY CLASS: C DT/DZ
ELEVATION. SPEED.SP300A DIRECTION.DR300A LAPSE.DT300A

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	7	1	0	0	8
NNE	0	2	5	4	0	0	11
NE	0	1	7	4	2	0	14
ENE	0	0	8	3	0	0	11
E	0	3	11	4	0	0	18
ESE	1	3	4	1	0	0	9
SE	0	1	6	4	0	0	11
SSE	0	0	6	4	0	0	10
S	0	0	7	11	3	1	22
SSW	0	0	0	7	0	3	10
SW	0	3	0	3	0	0	6
WSW	0	2	4	1	0	0	7
W	0	0	5	2	1	0	8
WNW	0	1	4	1	0	0	6
NW	0	2	7	6	1	0	16
NNW	0	3	6	3	0	0	12
TOTAL	1	21	87	59	7	4	179

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 1
HOURS OF MISSING DATA: 185

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 84070101-84093024
STABILITY CLASS. D DT/DZ
ELEVATION. SPEED.SP300A DIRECTION.DR300A LAPSE.DT300A

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	2	4	17	15	1	0	39
NNE	1	7	11	4	0	0	23
NE	0	6	12	23	0	0	40
ENE	1	5	20	28	7	1	63
E	3	5	18	7	1	0	34
ESE	2	18	9	6	1	0	32
SE	0	12	9	3	0	0	24
SSE	1	7	6	6	1	0	21
S	0	5	25	37	5	0	78
SSW	1	2	24	50	28	17	122
SW	0	5	5	17	3	0	30
WSW	2	4	7	17	1	0	31
W	2	6	12	8	0	0	28
WNW	3	6	14	7	1	1	32
NW	0	5	6	13	3	0	27
NNW	1	5	22	21	4	1	54
TOTAL	19	99	224	253	64	20	679

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA. 185

Table 7 - continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 04070101-04093024
STABILITY CLASS: E DT/DZ
ELEVATION SPEED.SP300A DIRECTION.DR300A LAPSE.DT300A

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	5	1	0	3	0	10
NNE	1	2	7	5	0	0	15
NE	1	2	0	6	2	0	10
ENE	1	4	4	6	1	0	16
E	1	3	19	0	1	0	24
ESE	1	3	4	1	0	0	9
SE	0	3	5	0	2	0	10
SSE	0	1	4	0	3	0	17
S	0	3	0	13	1	0	28
SSW	0	3	7	42	42	1	88
SW	2	2	6	13	28	5	83
WSW	0	3	13	17	10	1	44
W	1	2	11	13	6	1	34
WNW	0	5	6	7	2	0	20
NW	1	5	11	0	6	1	33
NNW	1	4	4	18	18	1	46
TOTAL	11	50	110	164	122	12	477

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 13
HOURS OF MISSING DATA 185

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 04070101-04093024
STABILITY CLASS: F DT/DZ
ELEVATION SPEED.SP300A DIRECTION.DR300A LAPSE.DT300A

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	2	2	11	11	0	27
NNE	0	1	2	12	0	0	15
NE	0	1	3	3	0	0	7
ENE	2	2	1	0	0	0	5
E	0	1	2	0	0	0	3
ESE	0	2	0	0	0	0	2
SE	2	3	4	2	0	0	11
SSE	1	1	6	1	1	0	10
S	1	1	5	7	0	0	14
SSW	0	0	0	17	2	0	19
SW	0	1	1	4	17	1	24
WSW	0	2	5	13	10	7	48
W	0	1	6	15	0	4	26
WNW	0	4	5	5	7	0	21
NW	0	0	4	0	0	0	22
NNW	0	2	2	13	20	4	58
TOTAL	7	24	48	112	84	16	381

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 185

Table 7 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 04070101-04093024
STABILITY CLASS: G DT/DZ
ELEVATION: SPEED.SP300A DIRECTION.DR300A LAPSE.DT300A

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	4	3	0	18	0	26
NNE	3	4	4	18	0	0	26
NE	0	4	1	0	0	0	5
ENE	0	1	0	0	0	0	1
E	0	3	6	0	0	0	9
ESE	0	6	5	2	0	0	13
SE	0	2	0	0	0	0	10
SSE	0	2	0	0	0	0	10
S	0	3	7	3	0	0	13
SSW	1	2	1	0	2	0	11
SW	0	1	2	10	2	0	15
WSW	1	0	0	5	5	3	14
W	0	4	4	7	6	4	26
WNW	0	4	3	5	2	0	14
NW	0	6	3	2	3	0	14
NNW	1	1	1	0	10	1	26
TOTAL	6	47	56	72	45	8	234

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA 185

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 04070101-04093024
STABILITY CLASS: ALL DT/DZ
ELEVATION: SPEED.SP300A DIRECTION.DR300A LAPSE.DT300A

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	4	15	33	45	25	0	122
NNE	5	16	34	48	0	0	103
NE	1	14	36	42	13	0	106
ENE	4	12	52	35	0	1	112
E	4	17	74	12	2	0	109
ESE	4	31	26	10	1	0	72
SE	2	22	45	13	2	0	82
SSE	2	14	37	25	5	0	83
S	1	12	54	88	16	1	172
SSW	2	7	35	130	75	22	271
SW	2	14	22	52	48	6	144
WSW	4	12	37	64	34	11	162
W	3	14	45	61	14	0	136
WNW	3	28	37	28	12	1	181
NW	1	18	30	51	23	1	133
NNW	3	15	36	73	67	0	203
TOTAL	45	253	640	750	345	61	2183

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 30
HOURS OF MISSING DATA 185

TABLE 8

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and Wind Direction 380 ft versus Delta Temperature 380-33ft for the Period 10/1/84 - 12/31/84

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 8410010I-84123124
STABILITY CLASS A DT/DZ
ELEVATION SPEED.SP380A DIRECTION.BP380A LAPSE.DT380A

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	1	1	0	0	2
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	1	0	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	1	0	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	1	1	0	0	2
W	0	0	0	2	0	0	2
WNW	0	0	0	0	0	0	0
NW	0	0	0	3	0	0	3
NNW	0	0	0	1	0	0	1
TOTAL	0	1	2	9	0	0	12

PERIODS OF CALM(HOURS). 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA. 131

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 8410010I-84123124
STABILITY CLASS B DT/DZ
ELEVATION SPEED.SP380A DIRECTION.BP380A LAPSE.DT380A

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	1	0	0	0	1
NNE	0	0	0	1	0	0	1
NE	0	0	2	3	0	0	5
ENE	0	0	3	0	0	0	3
E	0	0	0	3	0	0	3
ESE	0	0	1	0	0	0	1
SE	0	0	1	0	0	0	1
SSE	0	0	1	0	0	0	1
S	0	0	0	2	0	0	2
SSW	0	0	0	0	1	0	1
SW	0	0	0	0	0	0	0
WSW	0	0	1	0	0	0	1
W	0	0	1	1	2	1	5
WNW	0	0	0	1	1	4	6
NW	0	0	1	6	2	2	10
NNW	0	0	1	1	0	0	2
TOTAL	0	0	13	17	6	7	43

PERIODS OF CALM(HOURS). 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA. 131

Table 8 - continued

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 84100101-84123124
STABILITY CLASS C DT/DZ
ELEVATION SPEED.SP300A DIRECTION.BR300A LAPSE.DT300A

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	2	0	0	0	2
NNE	0	1	3	3	0	0	7
NE	0	1	1	1	0	0	3
ENE	0	0	3	1	0	0	4
E	0	1	3	1	0	0	5
ESE	0	4	2	0	0	0	6
SE	0	0	3	0	0	0	3
SSE	0	0	0	1	0	0	1
S	0	0	2	3	0	0	5
SSW	0	0	1	5	1	0	7
SW	0	0	2	1	1	0	4
WSW	0	1	1	3	2	3	10
W	0	0	3	3	4	5	15
WNW	0	0	1	6	3	3	13
NW	0	0	2	2	4	2	10
NNW	0	1	0	2	1	0	4
TOTAL	0	9	29	32	16	13	99

PERIODS OF CALM(HOURS) 0
VARIABLE DIRECTION 1
HOURS OF MISSING DATA 131

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 84100101-84123124
STABILITY CLASS D DT/DZ
ELEVATION SPEED.SP300A DIRECTION.BR300A LAPSE.DT300A

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	4	15	8	3	1	32
NNE	0	7	17	18	18	11	55
NE	0	2	17	24	15	16	74
ENE	0	5	22	24	16	2	69
E	2	10	24	11	10	6	62
ESE	0	6	5	1	1	1	14
SE	2	6	0	2	0	1	10
SSE	1	1	0	2	5	1	10
S	0	5	14	20	7	1	47
SSW	0	5	12	14	27	6	64
SW	2	1	13	23	0	1	40
WSW	0	3	14	15	10	7	49
W	0	4	12	14	14	9	53
WNW	0	0	10	25	28	14	77
NW	0	4	10	20	20	10	64
NNW	0	1	0	27	12	2	50
TOTAL	0	64	200	248	186	89	705

PERIODS OF CALM(HOURS) 0
VARIABLE DIRECTION 0
HOURS OF MISSING DATA 131

Table 8 - continued

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 04180101-04123124
STABILITY CLASS. E DT/DZ
ELEVATION SPEED.SP300A DIRECTION.DR300A LAPSE.DT300A

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	3	4	6	4	1	18
NNE	1	4	12	7	0	0	24
NE	0	2	5	7	6	0	10
ENE	0	2	7	4	0	0	13
E	0	1	7	4	4	0	16
ESE	0	7	3	1	10	2	23
SE	0	7	2	4	1	0	22
SSE	0	0	12	6	4	4	26
S	0	3	15	0	4	0	31
SSW	0	0	10	20	20	4	54
SW	2	2	7	9	21	12	53
WSW	0	1	6	0	12	0	35
W	1	4	4	0	17	1	35
WNW	0	3	5	10	24	0	50
NW	0	3	5	0	10	1	35
NNW	0	0	4	0	28	2	34
TOTAL	4	42	107	128	164	52	497

PERIODS OF CALM(HOURS). 0
VARIABLE DIRECTION 23
HOURS OF MISSING DATA. 131

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 04180101-04123124
STABILITY CLASS. F DT/DZ
ELEVATION SPEED.SP300A DIRECTION.DR300A LAPSE.DT300A

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	4	8	8	4	0	25
NNE	1	4	6	7	0	0	18
NE	0	4	3	1	2	0	10
ENE	0	3	1	1	0	0	5
E	0	0	4	2	0	0	6
ESE	0	3	1	2	0	0	6
SE	0	4	2	2	0	0	8
SSE	0	3	0	0	2	2	10
S	0	1	6	2	2	5	15
SSW	0	1	4	4	7	0	16
SW	1	2	5	2	3	3	16
WSW	0	2	7	7	8	4	28
W	0	2	10	7	14	0	35
WNW	1	2	9	15	20	1	46
NW	1	0	4	4	28	0	37
NNW	0	0	0	2	0	0	16
TOTAL	5	55	69	73	88	34	384

PERIODS OF CALM(HOURS). 0
VARIABLE DIRECTION 10
HOURS OF MISSING DATA. 131

Table 8 - continued

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 84100101-84123124
STABILITY CLASS = G DT/DZ
ELEVATION SPEED.SP300A DIRECTION.BR300A LAPSE.DT300A

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	1	3	2	5	8	0	18
NNE	2	4	2	4	1	0	16
NE	1	2	6	6	4	0	19
ENE	1	3	4	0	0	0	18
E	1	5	4	3	0	0	13
ESE	0	0	3	0	0	0	3
SE	0	1	0	0	0	0	1
SSE	1	4	3	0	1	0	0
S	0	3	5	2	6	0	24
SSW	1	0	0	0	3	0	20
SW	0	12	0	0	4	0	32
WSW	2	3	15	10	1	0	31
W	0	0	2	10	0	6	34
WNW	1	3	6	11	20	6	46
NW	0	4	4	7	0	0	24
NNW	2	0	5	2	4	3	16
TOTAL	13	55	76	82	60	23	327

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 26
HOURS OF MISSING DATA 131

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 84100101-84123124
STABILITY CLASS ALL DT/DZ
ELEVATION SPEED.SP300A DIRECTION.BR300A LAPSE.DT300A

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	3	14	32	27	16	2	94
NNE	4	20	40	32	15	11	120
NE	1	11	34	43	26	16	131
ENE	1	13	40	38	16	2	110
E	3	17	42	24	14	5	105
ESE	0	21	15	4	11	3	54
SE	2	10	16	0	1	0	54
SSE	2	0	24	18	12	7	71
S	0	12	41	30	10	14	126
SSW	1	14	36	51	50	10	171
SW	5	17	35	43	37	16	183
WSW	2	10	44	44	30	23	183
W	1	10	32	63	50	28	185
WNW	2	0	30	70	88	36	247
NW	1	11	26	40	73	23	183
NNW	2	2	10	43	46	12	123
TOTAL	38	206	605	581	628	217	2077

PERIODS OF CALM(HOURS): 0
VARIABLE DIRECTION 76
HOURS OF MISSING DATA 131

FIGURE 2
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JULY 1984 - SEPTEMBER 1984 (33' LEVEL)

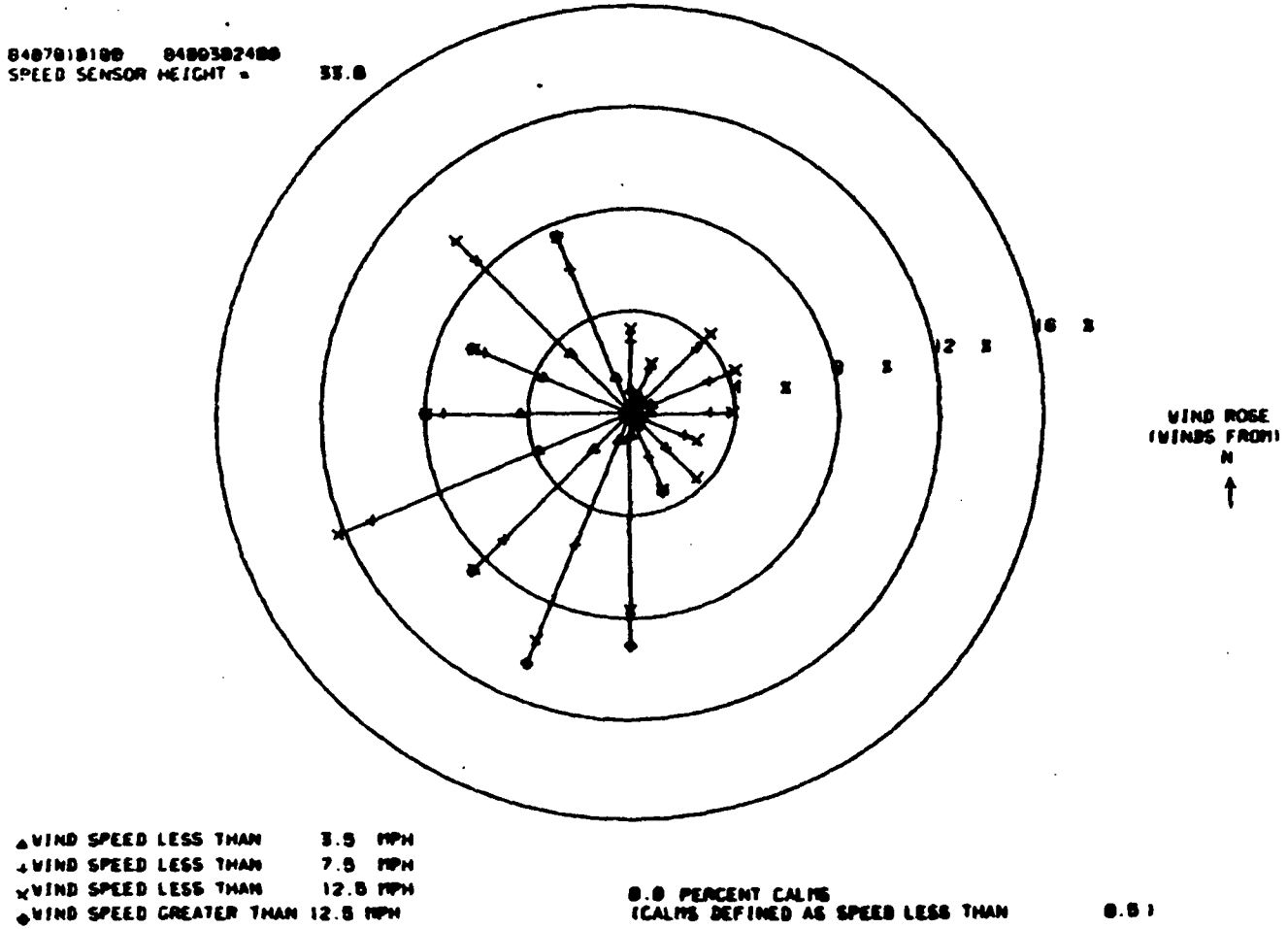

FIGURE 3
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JULY 1984 - SEPTEMBER 1984 (380' LEVEL)

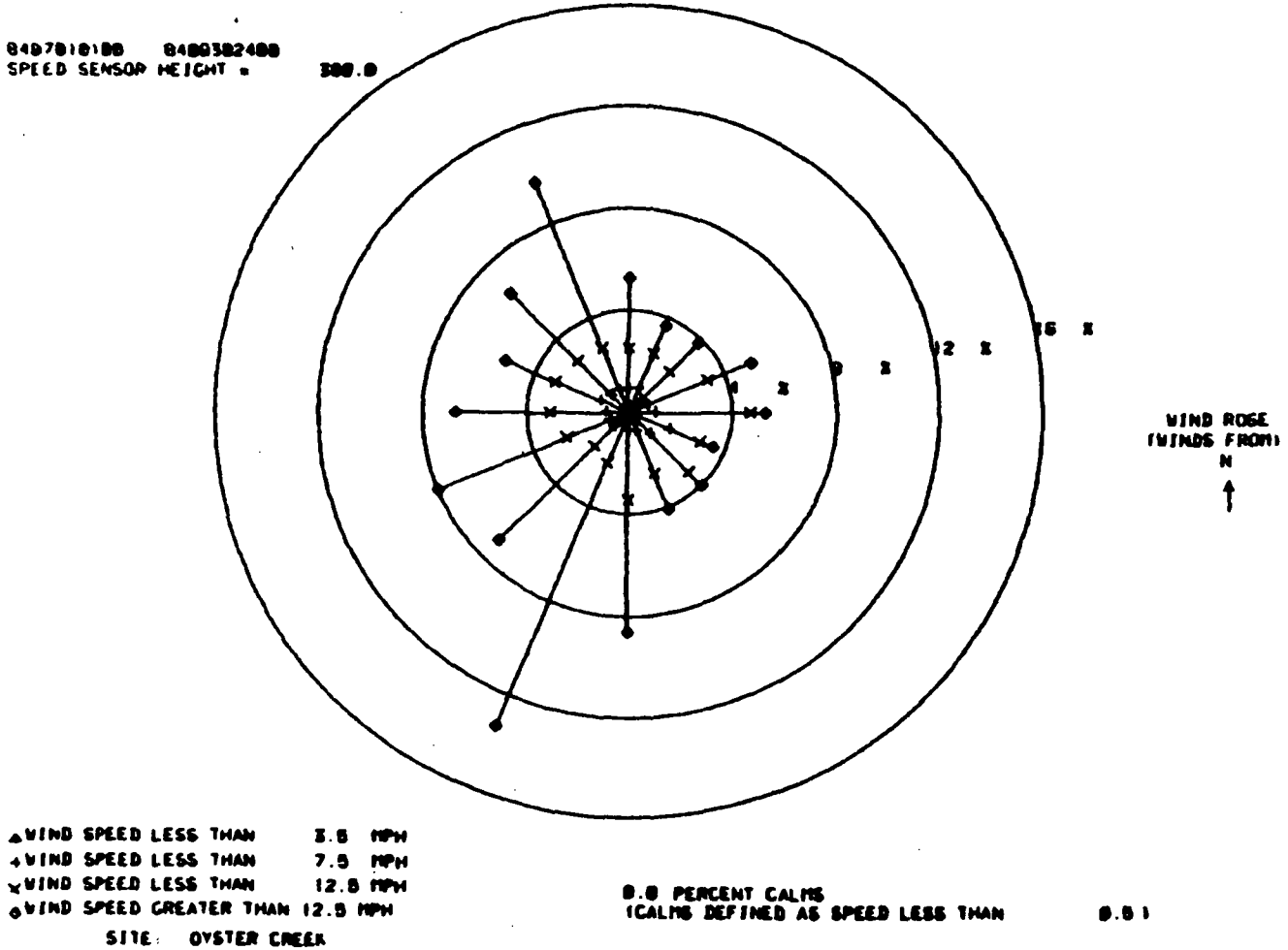

FIGURE 4
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
OCTOBER 1984 - DECEMBER 1984 (33' LEVEL)

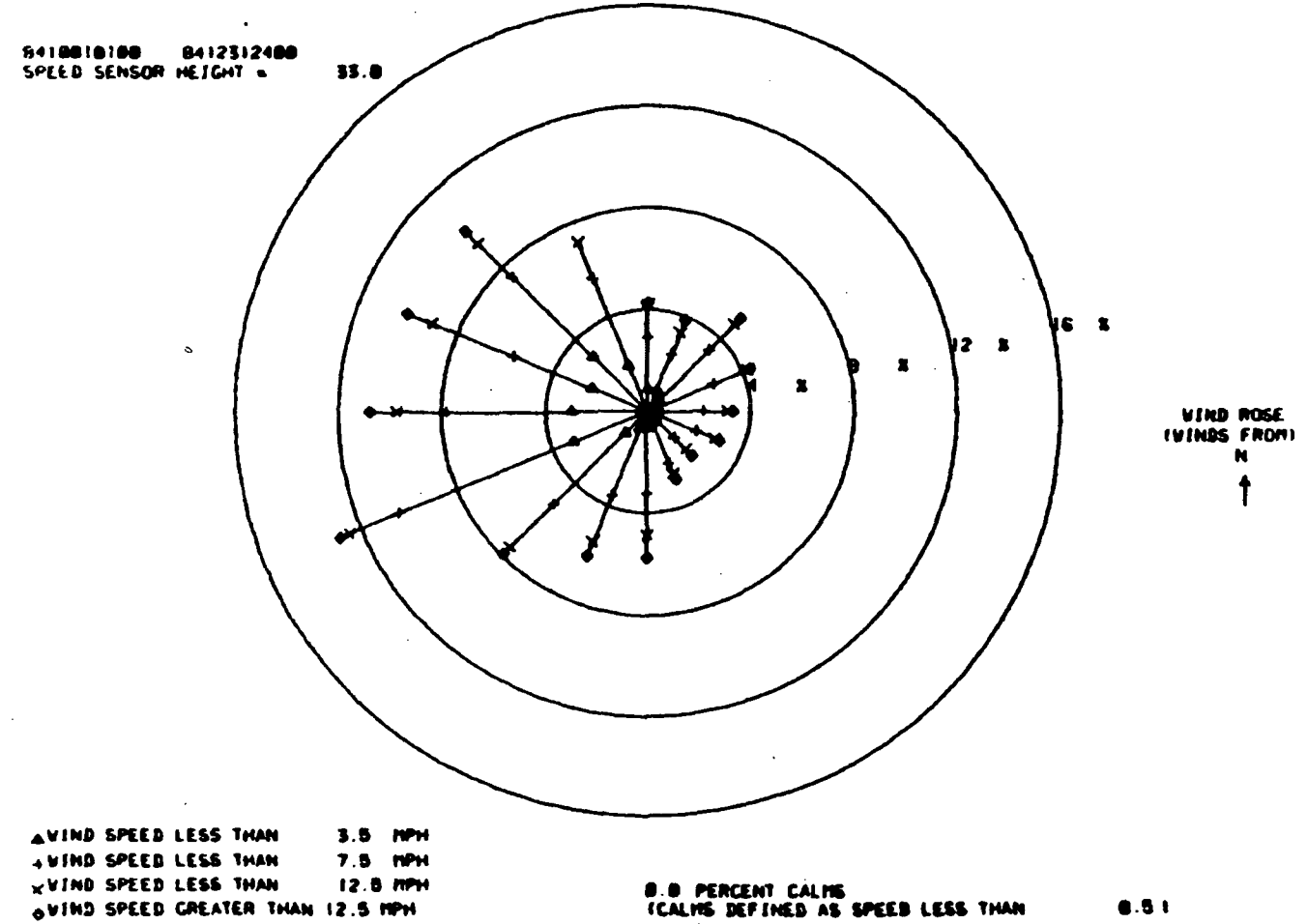

FIGURE 5
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
OCTOBER 1984 - DECEMBER 1984 (380' LEVEL)

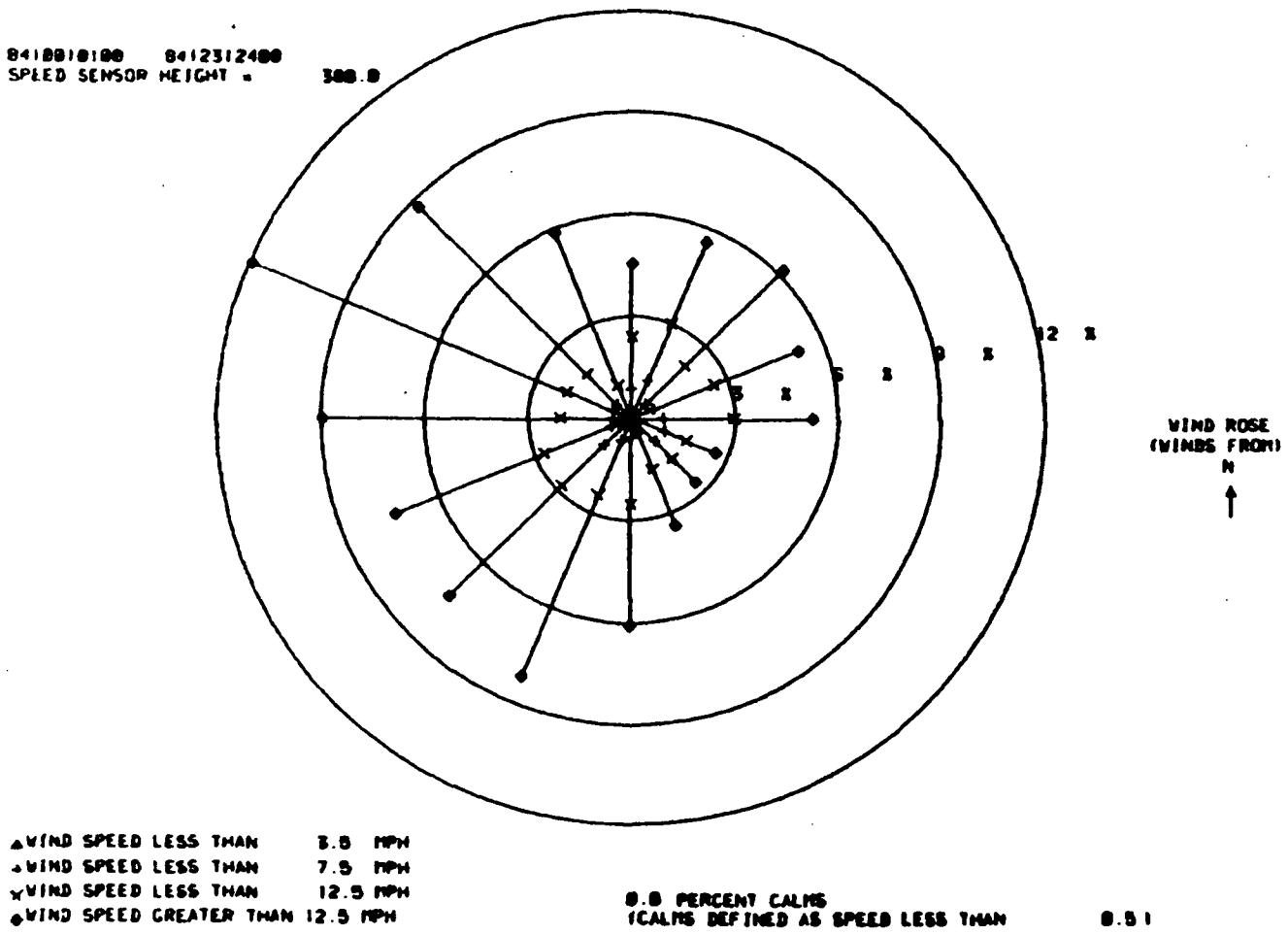

FIGURE 6

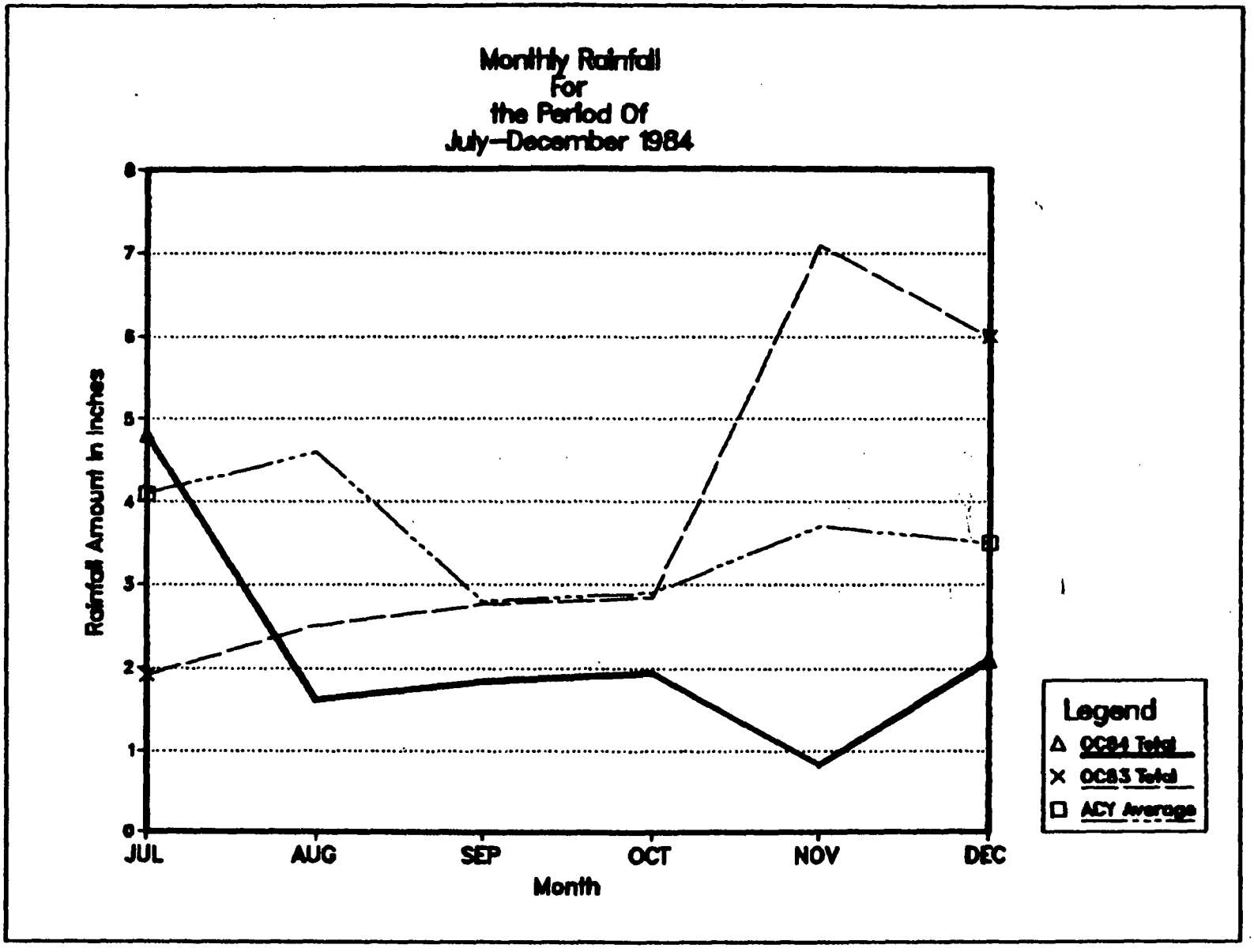
Monthly Rainfall
For
the Period Of
July–December 1984
Rainfall Amount In Inches
0
1
2
3
4
5
6
7
8
JUL
AUG
SEP
OCT
NOV
DEC
Month
Legend
OC84 Total
OC83 Total
ACY Average

TABLE 9

METEOROLOGICAL DATA RECOVERY PERCENTAGE

FOR THE OYSTER CREEK NUCLEAR GENERATING STATION

METEOROLOGICAL TOWER

MONTH	33' RECOVERY (%)	380' RECOVERY (%)
JUL 84	92	99
AUG 84	98	99
SEP 84	91	90
OCT 84	88	89
NOV 84	92	92
DEC 84	95	97
SIX MONTH AVERAGE	93	94

III. RADIOLOGICAL ENVIRONMENTAL SUMMARY

SECTION III - RADIOLOGICAL ENVIRONMENTAL SUMMARY

Radiological Environmental Monitoring Program

Introduction

The Radiological Environmental Monitoring Program was conducted during the reporting period in accordance with Technical Specification 4.6.B.3. The Technical Specifications, which refer to the Application for Reactor License, Docket No. 50-219, Amendment No. 65, require five general types of monitoring: (1) atmospheric radiation, (2) fallout, (3) domestic water, (4) surface water, and (5) marine life. This monitoring was accomplished by collecting samples from the various environmental media at sample collection stations as outlined in Table 10 and Figures 7 and 8.

Specifically, film badges and thermoluminescent dosimeters (TLDs) were analyzed for immersion dose. Particulate filters, air iodine cartridges, precipitation, vegetation, soil, and crops were analyzed for atmospheric radioactivity and fallout. Well water, surface water, aquatic sediment, and clams, as well as the aforementioned media, were analyzed because of their close association with either plant effluents and/or man's consumption. All results from these analyses are reported in Tables 11, 12, 14, 15, & 16.

Sampling Techniques

Radiological environmental sampling is conducted around the OCNGS as described below:

Environmental Media/Pathway	Mode of Sampling
Atmosphere/direct radiation, inhalation	Composite of Air Particulates on filter
	Adsorption of air iodines on charcoal filter
Atmosphere/direct radiation	TLD and Film Badge
Surface Water/direct radiation	Grab Sample
Well Water/ingestion	Grab Sample
Precipitation/direct radiation	Composite
Vegetation, Crops/ingestion	Grab
Soil/direct radiation	Grab
Aquatic Sediment/direct radiation	Grab
Shellfish/ingestion	Grab

All samples collected are processed and packed at an offsite lab near the OCNGS, then shipped to the vendor laboratories by courier for analysis. Vendor laboratories prepare samples as instructed by the Oyster Creek Environmental Controls Department. Radiochemical analyses are then performed by vendor laboratory, and results are sent to the Oyster Creek Environmental Controls Department.

An ongoing quality assurance program, as outlined in USNRC Regulatory Guide 4.15, is maintained in order to ensure the quality of radiological sampling and analysis. Specifically, this program includes the splitting of selected samples with a second laboratory,

the introduction of blind duplicate samples with the primary laboratory, performance of duplicate analyses on ten percent of all samples, periodic laboratory audits and analysis of the results of participation in the EPA cross check program.

Data

Tables 11 through 16 represent a summary of all radiological environmental data for the reporting period. Tables 14, 15, and 16 present the data in the manner prescribed in proposed USNRC Regulatory Guide 4.8 and USNRC Branch Technical Position.

TABLE 10
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND SAMPLE TYPE COLLECTED

STATION NUMBER		SAMPLE COLLECTED
1	Forked River, N.J. - Oyster Creek Meteorological Tower and Fire Pond	APT, AIO, RG, RWA, VGTN, SOIL, WWA
T1	Forked River, N.J. - Oyster Creek Meteorological Tower	RG
2	Pinewald, N.J. - Route #9 at JCP&L Company Pinewald Substation north of Forked River, N.J.	APT, AIO, RG, RWA, VGTN, SOIL
3	Island Beach State Park, N.J. - Near old Coast Guard Station	APT, AIO, RG, RWA, VGTN, SOIL
4	Barnegat, N. J. - Route #554, Windward at Barnegat, first road West of Parkway Exit	APT, AIO, RG, RWA, VGTN, SOIL
5	Forked River, N.J. - Garden State Parkway Northbound Entrance to Holiday House	APT, AIO, RG, RWA, VGTN, SOIL
6	Forked River, N.J. - Lane Place behind St. Pius X Catholic Church	RG
7	Waretown, N.J. - Compass Road, second pole North of Bay Parkway	RG
8	Waretown, N.J. - Route #9 at the Waretown Substation	RG
9	Waretown, N.J. - Route #532, North side of road at Parkway	RG
10	Toms River, N.J. - Route #37 East, adjacent to "Eastern Off Road Supply"	RG
11	Harvey Cedars, N.J. - Long Beach Blvd. and East 70th Street, Long Beach Island	RG
12	Cedar Run, N.J. - Access Road to Atlantic Electric's Combustion Turbine Generating Station, off Route 9, South of Route 72	RG

TABLE 10
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND SAMPLE TYPE COLLECTED

STATION NUMBER		SAMPLE COLLECTED
13	South Toms River, N.J. - Dover Road, next to last pole traveling West on North side	RG
14	Lakewood, N.J. - Larrabee Substation, just off Route #547 on Randolph Road	RG
15	New Egypt, N.J. - Route #539, last pole on South side, adjacent to "Bomarc" Site	RG
16	Intersection of Route #563 and Route #72, two poles South	RG
17	New Gretna, N.J. - Route #563, 2 miles North, next to High Voltage Line	RG
18	Forked River, N.J. - Lacey Road, Townsend's Marina	WWA
19	Forked River, N.J. - 1015 Inland Road, Forked River Beach	WWA
20	Forked River, N.J. - Finninger Farm at Environmental Lab	WWA
21	Waretown, N.J. - 215 Dock Avenue, Sands Point Harbor	WWA
22	Waretown, N.J. - 1014 Long John, Silver Way, Skippers Cove	WWA
23	Barnegat Bay - Off Stouts Creek approximately 400 yards SE (150°) of FL "1" (Heading on BWN "D")	SWA, AQS, CLAM
24	Barnegat Bay - Approximately 250 yards SE (180°) of FL "3" (Heading on N "66")	SWA, AQS, CLAM

TABLE 10
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND SAMPLE TYPE COLLECTED

STATION NUMBER		SAMPLE COLLECTED
25	Barnegat Bay - Off Holiday Harbor; approximately 200 yards SE (140°)of the Lagoon Mouth	SWA, AQS, CLAM
26	Forked River, N.J. - South Branch of Forked River, North of Bridge to Visitor Center	SWA, AQS
27	Forked River, N.J. - Downstream of Oyster Creek Fire Pond, approximately 10 yards	SWA, AQS
28	Forked River, N.J. - Lacey Road and the Garden State Parkway	CROP
29	Barnegat, N.J. - Route #534 and the Garden State Parkway	CROP
30	Forked River, N.J. - Finninger Farm along fence	CROP
31	Manahawkin Bay - Approximately 25 yards SE (140°) of C "23" and N "24"	SWA, AQS, CLAM
32	Oyster Creek - Mouth of Creek midway between Bulkhead on North Shore and South Shore of Creek	SWA, AQS
33	Oyster Creek - Approximately 1200 yards East of Route #9 Bridge, in middle of channel, directly South of Bulkhead running perpendicular to North Shore	SWA, AQS
A	Allenhurst, N.J. - JCP&L Company District Headquarters	APT, AIO, RG, RWA
C	Cookstown, N.J. - Route #528 Spur, at JCP&L Company District Dispatcher	APT, AIO, RG, RWA

TABLE 10
OYSTER CREEK STATION
ENVIRONMENTAL MONITORING STATIONS
LOCATION AND SAMPLE TYPE COLLECTED

STATION NUMBER		SAMPLE COLLECTED
H	Hammonton, NJ - Egg Harbor Road, at the Atlantic City Electric District Dispatcher	APT, AIO, RG, RWA
91	Forked River, NJ - Weigle Residence	VGTB
92	Tabernacle, NJ - Coppola Farm	VGTB
93	Barnegat, NJ - Jablonski Residence	VGTB
94	Waretown, NJ - Eayres Residence	VGTB
95	New Egypt, NJ - Hallock's Farm	VGTB
96	New Egypt, NJ - DeWolf Farm	VGTB

APT = Air Particulate

AIO = Air Iodine

RG = Radiogas/Direct Radiation

RWA = Precipitation

WWA = Well Water

SWA = Surface Water

AQS = Aquatic Sediment

CLAM = Clams

CROP = Pasture/Crops

VGTN = Vegetation

SOIL = Soil

VGTB = Vegetables

FIGURE 7
MAP OF REMP INDICATOR STATIONS

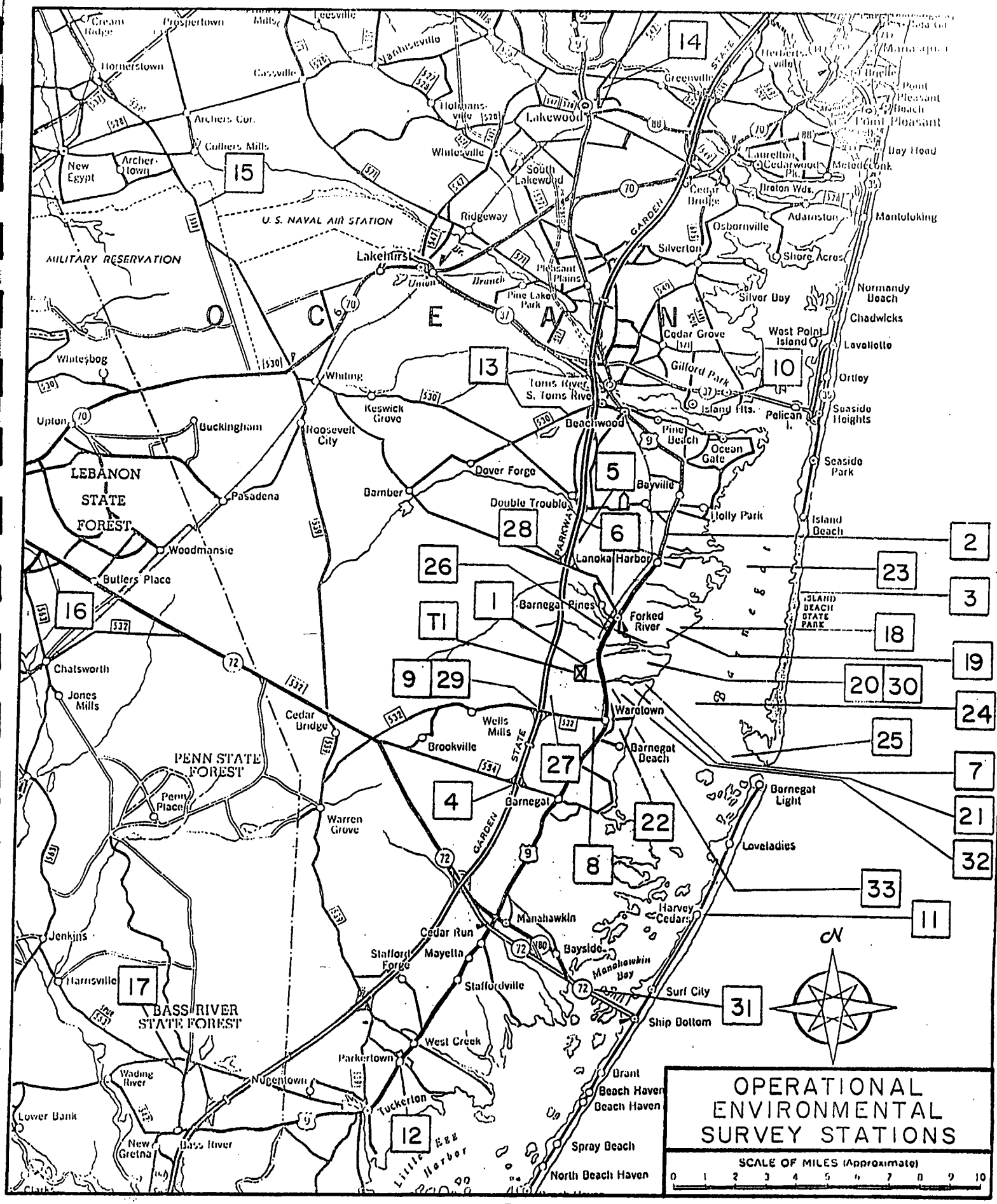

FIGURE 8
MAP OF REMP INDICATOR AND BACKGROUND STATIONS

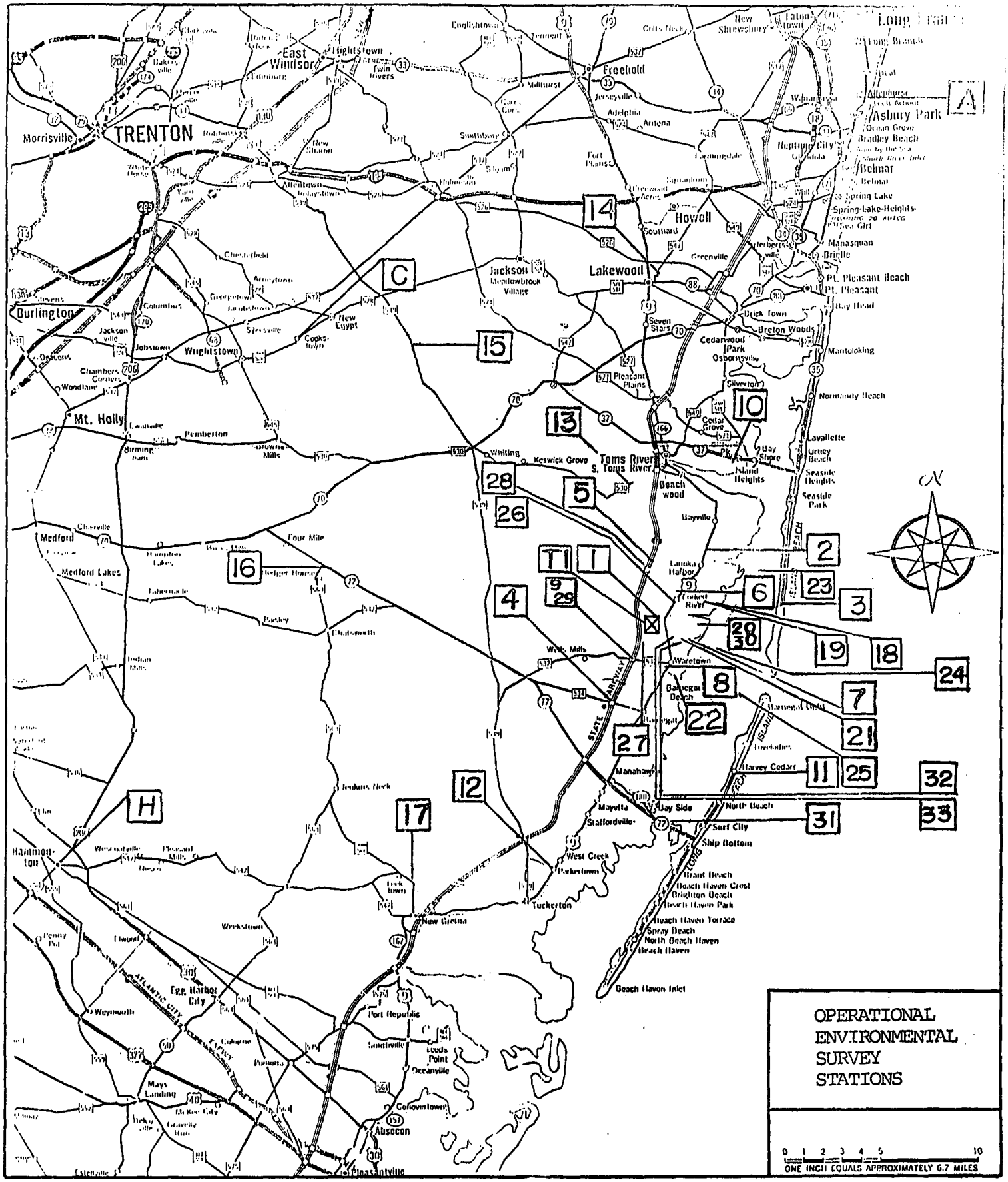

Table 11
Radiogas Film Badges
Scheduled Collection Period
June, 1984 through November, 1984

Collection Date		6-18-84	7-16-84	8-13-84		Three	9-10-84	10-9-84	11-5-84		Three	Six
Station	Unit					Month					Month	Month
						Total					Total	Total
1	Millirem	0	0	0		0	0	0	0		0	0
T1	Millirem	0	0	0		0	0	0	0		0	0
2	Millirem	0	0	0		0	0	0	0		0	0
3	Millirem	0	0	0		0	0	0	0		0	0
4	Millirem	0	0	0		0	0	0	0		0	0
5	Millirem	0	0	0		0	0	0	0		0	0
6	Millirem	0	0	0		0	0	0	0		0	0
7	Millirem	0	0	0		0	0	LOST	0		-	-
8	Millirem	0	0	0		0	0	0	0		0	0
9	Millirem	0	0	0		0	0	0	0		0	0
10	Millirem	0	0	0		0	0	0	0		0	0
11	Millirem	0	0	0		0	0	0	0		0	0
12	Millirem	0	0	0		0	0	0	0		0	0
13	Millirem	0	0	0		0	0	0	0		0	0
14	Millirem	0	0	0		0	0	0	0		0	0
15	Millirem	0	0	0		0	0	0	0		0	0
16	Millirem	0	0	0		0	0	0	0		0	0
17	Millirem	9	0	0		9	0	0	0		0	9
A	Millirem	0	0	0		0	0	0	0		0	0
C	Millirem	0	0	0		0	0	0	0		0	0
H	Millirem	0	0	0		0	0	0	0		0	0

TABLE 12
GAMMA DOSE TO THE ENVIRONMENT (MR/STD. MONTH)

AS MEASURED BY

THERMOLUMINESCENT DOSIMETER

FOR

JUNE,1984 THROUGH NOVEMBER,1984 (MONTHLY TLD READINGS)

MONTH:	JUNE		JULY		AUGUST			SEPTEMBER		OCTOBER		NOVEMBER			
STATION	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	3-MO TOTAL	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	3-MO TOTAL	6-MO TOTAL
A	21JUN84	7.10	17JUL84	8.20	17AUG84	6.50	21.80	11SEP84	7.00	11OCT84	5.50	07NOV84	7.90	20.40	42.20
C	19JUN84	6.10	17JUL84	6.90	15AUG84	6.10	19.10	10SEP84	6.50	09OCT84	5.10	06NOV84	6.80	18.40	37.50
H	19JUN84	6.00	16JUL84	6.80	15AUG84	5.70	18.50	10SEP84	6.40	09OCT84	4.90	08NOV84	5.90	17.20	35.70
1	18JUN84	6.60	18JUL84	6.70	15AUG84	6.40	19.70	12SEP84	6.20	12OCT84	5.10	06NOV84	6.10	17.40	37.10
2	22JUN84	5.60	19JUL84	7.10	17AUG84	5.90	18.60	14SEP84	6.10	12OCT84	5.30	09NOV84	6.00	17.40	36.00
3	21JUN84	6.00	17JUL84	7.10	17AUG84	5.50	18.60	11SEP84	7.00	11OCT84	5.00	07NOV84	6.10	18.10	36.70
4	18JUN84	6.80	18JUL84	5.70	20AUG84	5.10	17.60	12SEP84	6.80	09OCT84	5.30	09NOV84	5.40	17.50	35.10
5	22JUN84	5.70	19JUL84	6.80	17AUG84	6.00	18.50	12SEP84	6.60	10OCT84	5.20	09NOV84	6.20	18.00	36.50
6	18JUN84	6.10	18JUL84	6.00	17AUG84	5.70	17.80	10SEP84	6.90	10OCT84	4.80	09NOV84	5.20	16.90	34.70
7	18JUN84	6.40	18JUL84	6.30	16AUG84	5.70	18.40	12SEP84	5.80	TLD LOST		08NOV84	5.80	11.60	30.00
8	18JUN84	6.20	18JUL84	6.00	16AUG84	5.70	17.90	10SEP84	6.80	10OCT84	5.00	06NOV84	6.50	18.30	36.20
9	18JUN84	6.60	16JUL84	6.70	16AUG84	5.80	19.10	12SEP84	6.30	10OCT84	5.20	08NOV84	6.90	18.40	37.50
T1	18JUN84	6.40	18JUL84	6.70	15AUG84	6.50	19.60	12SEP84	6.40	12OCT84	5.30	06NOV84	7.20	18.90	38.50
10	22JUN84	6.10	19JUL84	6.70	17AUG84	5.80	18.60	11SEP84	7.20	11OCT84	5.20	07NOV84	6.60	19.00	37.60
11	20JUN84	5.70	18JUL84	6.20	17AUG84	5.20	17.10	13SEP84	5.70	10OCT84	5.10	08NOV84	5.90	16.70	33.80
12	19JUN84	5.70	16JUL84	6.60	15AUG84	5.20	17.50	10SEP84	6.20	09OCT84	4.70	06NOV84	5.70	16.60	34.10
13	22JUN84	5.80	19JUL84	6.60	20AUG84	5.10	17.50	11SEP84	7.00	11OCT84	4.70	09NOV84	6.30	18.00	35.50
14	21JUN84	6.90	17JUL84	8.00	17AUG84	6.50	21.40	11SEP84	8.00	10OCT84	6.10	07NOV84	7.60	21.70	43.10
15	19JUN84	5.90	16JUL84	6.80	15AUG84	5.60	18.30	10SEP84	6.40	09OCT84	4.90	06NOV84	5.90	17.20	35.50
16	20JUN84	5.60	16JUL84	6.60	17AUG84	5.20	17.40	13SEP84	5.70	10OCT84	5.30	08NOV84	5.80	16.80	34.20
17	19JUN84	6.20	16JUL84	6.60	15AUG84	5.90	18.70	10SEP84	6.50	09OCT84	4.90	06NOV84	6.30	17.70	36.40

TABLE 13
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1984 THROUGH NOVEMBER,1984

THE FOLLOWING PAGES ARE A SUMMARY OF REMP DATA FOR THE SCHEDULED COLLECTION PERIOD JUNE,1984 THRU NOVEMBER,1984. DATA IS SUMMARIZED ON A SEMI-ANNUAL AND QUARTERLY BASIS, WHERE

1.) XXX-MEAN(N/TOTAL); MEAN AND RANGE BASED ON
RANGE DETECTABLE ACTIVITIES OF
ALL XXX STATIONS

2.) XXX=BACKGROUND OR INDICATOR STATIONS

3.) (N/TOTAL)=FRACTION OF DETECTABLE ACTIVITIES/
TOTAL NUMBER OF ANALYSES PERFORMED

4.) STATION=STATION WITH HIGHEST SEMI-ANNUAL MEAN

5.) BACKGROUND STATIONS USED ARE:

STATION	A,C,H	31	18
SAMPLE TYPE	AIR PARTICULATE	SEDIMENT	WELL WATER
	AIR IODINE	CLAMS	
	PRECIPITATION	SURFACE WATER	

6.) IN ADDITION,THE FOLLOWING FOOD PRODUCTS WERE SAMPLED FOR GAMMA ISOTOPIC CONTENT DURING THE SUMMER MONTHS:

SAMPLE TYPE	STATION
CABBAGE	92,93,94,96
TOMATOES	91
CUCUMBERS	91
BROCCOLI	92,93,96
TURNIP GREENS	94,95
SWISS CHARD	94
GREEN BEANS	91

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1984 THROUGH NOVEMBER,1984
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
VEGETATION (PCI/KG(WET))	GROSS BETA		30	5.99E+01	7.22E+03 (30 /30) (1.96E+03 - 1.64E+04)		. (. /.) (. - .)	1 2 3 4 5
						2	8.97E+03(6 /6) (3.26E+03 - 1.64E+04)	
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		104	7.43E-04	1.36E-03 (49 /65) (1.38E-04 - 2.70E-03)		1.33E-03(29 /39) (8.41E-04 - 2.10E-03)	1 2 3 4 5
						2	1.50E-03(10 /13) (7.30E-04 - 2.68E-03)	
AIR PARTICULATE (PCI/M3)	GROSS BETA		104	2.97E-03	1.53E-02 (65 /65) (1.00E-02 - 2.67E-02)		1.61E-02(39 /39) (7.42E-03 - 8.84E-02)	1 2 3 4 5
						2	1.61E-02(13 /13) (1.04E-02 - 2.41E-02)	
AIR PARTICULATE (PCI/M3)	GAMMA	CE-144	104	2.64E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	CS-134	104	5.48E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	CO-58	104	5.29E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1984 THROUGH NOVEMBER,1984
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	MN-54	104	5.41E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	FE-59	104	1.28E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	ZN-65	104	1.15E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	CO-60	104	5.86E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	K-40	104	1.13E-01	1.10E-01 (5 /65) (3.90E-02 - 1.60E-01)		7.55E-02(2 /39) (6.00E-02 - 9.10E-02)	1 2 3 4 5
						3	1.60E-01(1 /13) (1.60E-01 - 1.60E-01)	
AIR PARTICULATE (PCI/M3)	GAMMA	BE-7	104	6.42E-02	3.91E-01 (46 /65) (6.20E-02 - 1.30E+01)		9.53E-02(25 /39) (4.90E-02 - 1.50E-01)	1 2 3 4 5
						2	1.96E+00(7 /13) (9.30E-02 - 1.30E+01)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1984 THROUGH NOVEMBER,1984
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	ZR-95	104	1.12E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	NB-95	104	5.77E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	CE-141	104	9.08E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	RU-103	104	6.08E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	BA-140	104	3.45E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	LA-140	104	1.74E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE, 1984 THROUGH NOVEMBER, 1984
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	RA-226	104	8.06E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	TH-228	104	8.73E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	I-131	104	3.04E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	RU-106	104	4.22E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	CS-137	104	5.20E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		16	4.66E-04	< LLD (0 /10)		< LLD (0 /6)	1 2 3 4 5
						5	< LLD (0 /2)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1984 THROUGH NOVEMBER,1984
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	STRONTIUM-90		16	1.47E-04	< LLD (0 /10)		< LLD (0 /6)	1 2 3 4 5
						5	< LLD (0 /2)	
PRECIPITATION (PCI/L)	GROSS BETA-SS		48	8.88E-01	1.68E+00 (6 /30) (7.36E-01 - 3.01E+00)		1.32E+00(2 /18) (1.20E+00 - 1.44E+00)	1 2 3 4 5
						3	3.01E+00(1 /6) (3.01E+00 - 3.01E+00)	
PRECIPITATION (PCI/L)	GROSS BETA-DS		48	8.97E-01	7.07E+00 (30 /30) (1.20E+00 - 4.54E+01)		4.00E+00(18 /18) (2.01E+00 - 1.22E+01)	1 2 3 4 5
						2	1.63E+01(6 /6) (6.24E+00 - 4.54E+01)	
PRECIPITATION (PCI/L)	GAMMA	CE-144	48	3.58E+01	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	CS-134	48	4.53E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	CO-58	48	4.50E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1984 THROUGH NOVEMBER,1984
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	MN-54	48	4.12E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	FE-59	48	9.74E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	ZN-65	48	8.64E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	CO-60	48	4.41E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	K-40	48	7.96E+01	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	BE-7	48	4.83E+01	4.80E+01 (1 /30) (4.80E+01 - 4.80E+01)		1.20E+02(1 /18) (1.20E+02 - 1.20E+02)	1 2 3 4 5
						4	4.80E+01(1 /6) (4.80E+01 - 4.80E+01)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	ZR-95	48	9.79E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	NB-95	48	5.00E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	CE-141	48	1.23E+01	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	RU-103	48	5.81E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	BA-140	48	3.07E+01	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	LA-140	48	1.32E+01	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	RA-226	48	9.64E+01	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	TH-228	48	9.02E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	I-131	48	3.12E+01	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	RU-106	48	3.86E+01	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	CS-137	48	4.70E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	TRITIUM		48	1.36E+02	2.60E+02 (19 /30) (1.34E+02 - 4.59E+02)		2.01E+02(11 /18) (1.34E+02 - 3.65E+02)	1 2 3 4 5
						2	3.42E+02(3 /6) (2.54E+02 - 4.59E+02)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	STRONTIUM-89		48	2.63E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	STRONTIUM-90		48	6.90E-01	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
AIR IODINE (PCI/M3)	IODINE-131		104	2.42E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
CABBAGE (PCI/KG(WET))	GROSS BETA		4	5.30E+01	6.53E+03 (2 /2) (4.89E+03 - 8.17E+03)		5.21E+03(2 /2) (3.59E+03 - 6.84E+03)	93 94
						93	8.17E+03(1 /1) (8.17E+03 - 8.17E+03)	
CABBAGE (PCI/KG(WET))	GAMMA	CE-144	4	1.42E+02	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	CS-134	4	1.82E+01	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CABBAGE (PCI/KG(WET))	GAMMA	CO-58	4	2.15E+01	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	MN-54	4	1.82E+01	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	FE-59	4	6.05E+01	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	ZN-65	4	4.55E+01	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	CO-60	4	2.20E+01	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	K-40	4	7.85E+02	3.90E+03 (2 /2) (2.70E+03 - 5.10E+03)		2.45E+03(2 /2) (2.30E+03 - 2.60E+03)	93 94
						93	5.10E+03(1 /1) (5.10E+03 - 5.10E+03)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CABBAGE (PCI/KG(WET))	GAMMA	BE-7	4	2.47E+02	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	ZR-95	4	4.77E+01	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	NB-95	4	2.42E+01	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	CE-141	4	5.67E+01	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	RU-103	4	3.00E+01	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	BA-140	4	2.45E+02	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CABBAGE (PCI/KG(WET))	GAMMA	LA-140	4	7.85E+01	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	RA-226	4	4.20E+02	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	TH-228	4	3.88E+01	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	I-131	4	2.67E+02	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	RU-106	4	1.60E+02	< LLD (0 /2)		< LLD (0 /2)	93 94
						94	< LLD (0 /1)	
CABBAGE (PCI/KG(WET))	GAMMA	CS-137	4	2.50E+01	7.40E+01 (1 /2) (7.40E+01 - 7.40E+01)		< LLD (0 /2)	93 94
						94	7.40E+01(1 /1) (7.40E+01 - 7.40E+01)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CUCUMBERS (PCI/KG(WET))	GROSS BETA		1	2.04E+01	4.11E+03 (1 /1) (4.11E+03 - 4.11E+03)		. (. /.) (. - .)	91
						91	4.11E+03(1 /1) (4.11E+03 - 4.11E+03)	
CUCUMBERS (PCI/KG(WET))	GAMMA	CE-144	1	5.20E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	CS-134	1	6.80E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	CO-58	1	6.40E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	MN-54	1	6.70E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	FE-59	1	1.70E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CUCUMBERS (PCI/KG(WET))	GAMMA	ZN-65	1	1.50E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	CO-60	1	7.30E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	K-40	1	3.10E+02	2.40E+03 (1 /1) (2.40E+03 - 2.40E+03)		. (. /.) (. - .)	91
						91	2.40E+03(1 /1) (2.40E+03 - 2.40E+03)	
CUCUMBERS (PCI/KG(WET))	GAMMA	BE-7	1	5.70E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	ZR-95	1	1.40E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	NB-95	1	7.70E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CUCUMBERS (PCI/KG(WET))	GAMMA	CE-141	1	1.60E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	RU-103	1	6.90E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	BA-140	1	3.60E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	LA-140	1	1.40E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	RA-226	1	1.50E+02	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	TH-228	1	1.30E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CUCUMBERS (PCI/KG(WET))	GAMMA	I-131	1	2.80E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	RU-106	1	5.20E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	CS-137	1	1.20E+01	4.40E+01 (1 /1) (4.40E+01 - 4.40E+01)		. (. /.) (. - .)	91
						91	4.40E+01(1 /1) (4.40E+01 - 4.40E+01)	
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		48	4.48E-01	4.28E-01 (3 /42) (3.73E-01 - 4.76E-01)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	4.76E-01(1 /6) (4.76E-01 - 4.76E-01)	
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		48	4.66E+01	1.30E+00 (3 /42) (1.14E+00 - 1.40E+00)		< LLD (0 /6)	23 24 25 26 27 32 33
						26	1.30E+00(3 /6) (1.14E+00 - 1.40E+00)	
SURFACE WATER (PCI/L)	GROSS BETA-SS		48	8.24E-01	8.89E-01 (3 /42) (6.68E-01 - 1.17E+00)		1.16E+00(1 /6) (1.16E+00 - 1.16E+00)	23 24 25 26 27 32 33
						26	9.99E-01(2 /6) (8.28E-01 - 1.17E+00)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GROSS BETA-DS		48	3.65E+01	2.13E+02 (41 /42) (1.78E+00 - 4.49E+02)		3.96E+02(6 /6) (1.90E+02 - 5.48E+02)	23 24 25 26 27 32 33
						25	3.40E+02(5 /6) (2.06E+02 - 4.14E+02)	
SURFACE WATER (MG/L)	CALCIUM BY AA		48	1.00E+01	5.33E+02 (36 /42) (1.14E+01 - 2.97E+03)		7.83E+02(6 /6) (3.98E+02 - 2.18E+03)	23 24 25 26 27 32 33
						33	7.95E+02(6 /6) (2.70E+02 - 2.97E+03)	
SURFACE WATER (PCI/L)	GAMMA	CE-144	48	2.91E+01	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	CS-134	48	3.89E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	CO-58	48	3.89E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	MN-54	48	3.60E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	

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SURFACE WATER (PCI/L)	GAMMA	FE-59	48	8.70E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	ZN-65	48	7.71E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	CO-60	48	3.81E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	K-40	48	8.08E+01	1.85E+02 (20 /42) (5.20E+01 - 3.40E+02)		2.34E+02(5 /6) (1.70E+02 - 2.80E+02)	23 24 25 26 27 32 33
						23	2.35E+02(4 /6) (1.30E+02 - 3.40E+02)	
SURFACE WATER (PCI/L)	GAMMA	BE-7	48	3.87E+01	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	ZR-95	48	8.29E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	

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SURFACE WATER (PCI/L)	GAMMA	NB-95	48	4.27E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	CE-141	48	9.19E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	RU-103	48	4.97E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	BA-140	48	2.49E+01	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	LA-140	48	1.06E+01	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	RA-226	48	7.92E+01	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	

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JUNE, 1984 THROUGH NOVEMBER, 1984
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GAMMA	TH-228	48	7.40E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	I-131	48	2.30E+01	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	RU-106	48	3.31E+01	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	CS-137	48	4.02E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	TRITIUM		48	1.31E+02	2.15E+02 (24 /42) (1.06E+02 - 3.57E+02)		2.05E+02(3 /6) (1.21E+02 - 2.94E+02)	23 24 25 26 27 32 33
						24	2.45E+02(4 /6) (1.43E+02 - 3.57E+02)	
SURFACE WATER (PCI/L)	RADIUM-226		48	1.63E-01	8.92E-01 (5 /42) (3.38E-01 - 1.34E+00)		< LLD (0 /6)	23 24 25 26 27 32 33
						23	1.34E+00(1 /6) (1.34E+00 - 1.34E+00)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	RADIUM-228		48	2.69E-01	6.63E-01 (17 /42) (2.58E-01 - 3.16E+00)		2.89E-01(1 /6) (2.89E-01 - 2.89E-01)	23 24 25 26 27 32 33
						23	1.82E+00(2 /6) (4.75E-01 - 3.16E+00)	
SURFACE WATER (PCI/L)	STRONTIUM-89		48	2.50E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	STRONTIUM-90		48	7.54E-01	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	TOTAL URANIUM		48	3.40E-02	8.16E-01 (40 /42) (5.58E-02 - 1.66E+00)		1.32E+00(6 /6) (1.08E+00 - 1.92E+00)	23 24 25 26 27 32 33
						23	1.16E+00(6 /6) (4.47E-01 - 1.66E+00)	
GREEN BEANS (PCI/KG(WET))	GROSS BETA		1	5.77E+01	1.13E+04 (1 /1) (1.13E+04 - 1.13E+04)		. (. /.) (. - .)	91
						91	1.13E+04(1 /1) (1.13E+04 - 1.13E+04)	
GREEN BEANS (PCI/KG(WET))	GAMMA	CE-144	1	8.70E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
						STATION	STATION-MEAN(N/TOTAL) RANGE		
GREEN BEANS (PCI/KG(WET))	GAMMA	CS-134	1	1.40E+01	< LLD	(0 /1)	. (. /.) (. - .)		91
						91	< LLD (0 /1)		
GREEN BEANS (PCI/KG(WET))	GAMMA	CO-58	1	1.80E+01	< LLD	(0 /1)	. (. /.) (. - .)		91
						91	< LLD (0 /1)		
GREEN BEANS (PCI/KG(WET))	GAMMA	MN-54	1	1.50E+01	< LLD	(0 /1)	. (. /.) (. - .)		91
						91	< LLD (0 /1)		
GREEN BEANS (PCI/KG(WET))	GAMMA	FE-59	1	4.30E+01	< LLD	(0 /1)	. (. /.) (. - .)		91
						91	< LLD (0 /1)		
GREEN BEANS (PCI/KG(WET))	GAMMA	ZN-65	1	3.80E+01	< LLD	(0 /1)	. (. /.) (. - .)		91
						91	< LLD (0 /1)		
GREEN BEANS (PCI/KG(WET))	GAMMA	CO-60	1	1.80E+01	< LLD	(0 /1)	. (. /.) (. - .)		91
						91	< LLD (0 /1)		

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
GREEN BEANS (PCI/KG(WET))	GAMMA	K-40	1	7.30E+02	4.20E+03 (1 /1) (4.20E+03 - 4.20E+03)		. (. /.) (. - .)	91
						91	4.20E+03(1 /1) (4.20E+03 - 4.20E+03)	
GREEN BEANS (PCI/KG(WET))	GAMMA	BE-7	1	1.60E+02	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
GREEN BEANS (PCI/KG(WET))	GAMMA	ZR-95	1	3.20E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
GREEN BEANS (PCI/KG(WET))	GAMMA	NB-95	1	1.80E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
GREEN BEANS (PCI/KG(WET))	GAMMA	CE-141	1	3.10E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
GREEN BEANS (PCI/KG(WET))	GAMMA	RU-103	1	2.00E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	

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						STATION	STATION-MEAN(N/TOTAL) RANGE	
GREEN BEANS (PCI/KG(WET))	GAMMA	BA-140	1	1.20E+02	< LLD	(0 /1)	. (. /.) (. - .)	91
						91	< LLD (0 /1)	
GREEN BEANS (PCI/KG(WET))	GAMMA	LA-140	1	5.10E+01	< LLD	(0 /1)	. (. /.) (. - .)	91
						91	< LLD (0 /1)	
GREEN BEANS (PCI/KG(WET))	GAMMA	RA-226	1	2.60E+02	< LLD	(0 /1)	. (. /.) (. - .)	91
						91	< LLD (0 /1)	
GREEN BEANS (PCI/KG(WET))	GAMMA	TH-228	1	2.20E+01	< LLD	(0 /1)	. (. /.) (. - .)	91
						91	< LLD (0 /1)	
GREEN BEANS (PCI/KG(WET))	GAMMA	I-131	1	1.10E+02	< LLD	(0 /1)	. (. /.) (. - .)	91
						91	< LLD (0 /1)	
GREEN BEANS (PCI/KG(WET))	GAMMA	RU-106	1	1.40E+02	< LLD	(0 /1)	. (. /.) (. - .)	91
						91	< LLD (0 /1)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
GREEN BEANS (PCI/KG(WET))	GAMMA	CS-137	1	1.80E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GROSS BETA		1	2.83E+01	4.96E+03 (1 /1) (4.96E+03 - 4.96E+03)		. (. /.) (. - .)	91
						91	4.96E+03(1 /1) (4.96E+03 - 4.96E+03)	
TOMATOES (PCI/KG(WET))	GAMMA	CE-144	1	3.20E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	CS-134	1	5.50E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	CO-58	1	5.90E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	MN-54	1	5.00E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
TOMATOES (PCI/KG(WET))	GAMMA	FE-59	1	1.50E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	ZN-65	1	1.40E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	CO-60	1	5.80E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	K-40	1	2.70E+02	2.40E+03 (1 /1) (2.40E+03 - 2.40E+03)		. (. /.) (. - .)	91
						91	2.40E+03(1 /1) (2.40E+03 - 2.40E+03)	
TOMATOES (PCI/KG(WET))	GAMMA	BE-7	1	5.50E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	ZR-95	1	1.20E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	

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TOMATOES (PCI/KG(WET))	GAMMA	NB-95	1	5.80E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	CE-141	1	9.90E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	RU-103	1	6.70E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	BA-140	1	3.10E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	LA-140	1	1.30E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	RA-226	1	9.50E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	

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TOMATOES (PCI/KG(WET))	GAMMA	TH-228	1	8.70E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	I-131	1	2.40E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	RU-106	1	4.80E+01	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	CS-137	1	7.00E+00	< LLD (0 /1)		. (. /.) (. - .)	91
						91	< LLD (0 /1)	
TURNIP GREENS (PCI/KG(WET))	GROSS BETA		2	7.82E+01	3.70E+03 (1 /1) (3.70E+03 - 3.70E+03)		6.19E+03(1 /1) (6.19E+03 - 6.19E+03)	94
						94	3.70E+03(1 /1) (3.70E+03 - 3.70E+03)	
TURNIP GREENS (PCI/KG(WET))	GAMMA	CE-144	2	1.38E+02	< LLD (0 /1)		< LLD (0 /1)	94
						94	< LLD (0 /1)	

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						STATION		STATION-MEAN(N/TOTAL) RANGE	
TURNIP GREENS (PCI/KG(WET))	GAMMA	CS-134	2	1.00E+01	< LLD	(0 /1)	< LLD	(0 /1)	94
						94	< LLD (0 /1)		
TURNIP GREENS (PCI/KG(WET))	GAMMA	CO-58	2	1.05E+01	< LLD	(0 /1)	< LLD	(0 /1)	94
						94	< LLD (0 /1)		
TURNIP GREENS (PCI/KG(WET))	GAMMA	MN-54	2	9.35E+00	< LLD	(0 /1)	< LLD	(0 /1)	94
						94	< LLD (0 /1)		
TURNIP GREENS (PCI/KG(WET))	GAMMA	FE-59	2	2.60E+01	< LLD	(0 /1)	< LLD	(0 /1)	94
						94	< LLD (0 /1)		
TURNIP GREENS (PCI/KG(WET))	GAMMA	ZN-65	2	2.20E+01	< LLD	(0 /1)	< LLD	(0 /1)	94
						94	< LLD (0 /1)		
TURNIP GREENS (PCI/KG(WET))	GAMMA	CO-60	2	9.35E+00	< LLD	(0 /1)	< LLD	(0 /1)	94
						94	< LLD (0 /1)		

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TURNIP GREENS (PCI/KG(WET))	GAMMA	K-40	2	3.95E+02	2.40E+03 (1 /1) (2.40E+03 - 2.40E+03)		3.70E+03(1 /1) (3.70E+03 - 3.70E+03)	94
						94	2.40E+03(1 /1) (2.40E+03 - 2.40E+03)	
TURNIP GREENS (PCI/KG(WET))	GAMMA	BE-7	2	1.10E+02	< LLD (0 /1)		2.20E+02(1 /1) (2.20E+02 - 2.20E+02)	94
						94	< LLD (0 /1)	
TURNIP GREENS (PCI/KG(WET))	GAMMA	ZR-95	2	2.25E+01	< LLD (0 /1)		< LLD (0 /1)	94
						94	< LLD (0 /1)	
TURNIP GREENS (PCI/KG(WET))	GAMMA	NB-95	2	1.15E+01	< LLD (0 /1)		< LLD (0 /1)	94
						94	< LLD (0 /1)	
TURNIP GREENS (PCI/KG(WET))	GAMMA	CE-141	2	4.60E+01	< LLD (0 /1)		< LLD (0 /1)	94
						94	< LLD (0 /1)	
TURNIP GREENS (PCI/KG(WET))	GAMMA	RU-103	2	1.35E+01	< LLD (0 /1)		< LLD (0 /1)	94
						94	< LLD (0 /1)	

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					STATION	STATION-MEAN(N/TOTAL) RANGE			
TURNIP GREENS (PCI/KG(WET))	GAMMA	BA-140	2	5.65E+01	< LLD	(0 /1)	< LLD	(0 /1)	94
					94	< LLD (0 /1)			
TURNIP GREENS (PCI/KG(WET))	GAMMA	LA-140	2	2.55E+01	< LLD	(0 /1)	< LLD	(0 /1)	94
					94	< LLD (0 /1)			
TURNIP GREENS (PCI/KG(WET))	GAMMA	RA-226	2	1.04E+02	< LLD	(0 /1)	< LLD	(0 /1)	94
					94	< LLD (0 /1)			
TURNIP GREENS (PCI/KG(WET))	GAMMA	TH-228	2	1.49E+01	< LLD	(0 /1)	< LLD	(0 /1)	94
					94	< LLD (0 /1)			
TURNIP GREENS (PCI/KG(WET))	GAMMA	I-131	2	6.35E+01	< LLD	(0 /1)	< LLD	(0 /1)	94
					94	< LLD (0 /1)			
TURNIP GREENS (PCI/KG(WET))	GAMMA	RU-106	2	9.15E+01	< LLD	(0 /1)	< LLD	(0 /1)	94
					94	< LLD (0 /1)			

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TURNIP GREENS (PCI/KG(WET))	GAMMA	CS-137	2	1.55E+01	1.10E+02 (1 /1) (1.10E+02 - 1.10E+02)		1.50E+01(1 /1) (1.50E+01 - 1.50E+01)	94
						94	1.10E+02(1 /1) (1.10E+02 - 1.10E+02)	
SWISS CHARD (PCI/KG(WET))	GROSS BETA		1	6.27E+01	2.25E+03 (1 /1) (2.25E+03 - 2.25E+03)		. (. /.) (. - .)	94
						94	2.25E+03(1 /1) (2.25E+03 - 2.25E+03)	
SWISS CHARD (PCI/KG(WET))	GAMMA	CE-144	1	8.80E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	CS-134	1	1.10E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	CO-58	1	1.10E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	MN-54	1	1.00E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	

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SWISS CHARD (PCI/KG(WET))	GAMMA	FE-59	1	2.50E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	ZN-65	1	2.50E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	CO-60	1	8.90E+00	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	K-40	1	3.40E+02	1.20E+03 (1 /1) (1.20E+03 - 1.20E+03)		. (. /.) (. - .)	94
						94	1.20E+03(1 /1) (1.20E+03 - 1.20E+03)	
SWISS CHARD (PCI/KG(WET))	GAMMA	BE-7	1	1.10E+02	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	ZR-95	1	2.60E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SWISS CHARD (PCI/KG(WET))	GAMMA	NB-95	1	1.30E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	CE-141	1	2.80E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	RU-103	1	1.40E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	BA-140	1	7.90E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	LA-140	1	3.00E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	RA-226	1	2.10E+02	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SWISS CHARD (PCI/KG(WET))	GAMMA	TH-228	1	2.00E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	I-131	1	7.00E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	RU-106	1	8.60E+01	< LLD (0 /1)		. (. /.) (. - .)	94
						94	< LLD (0 /1)	
SWISS CHARD (PCI/KG(WET))	GAMMA	CS-137	1	1.60E+01	6.90E+01 (1 /1) (6.90E+01 - 6.90E+01)		. (. /.) (. - .)	94
						94	6.90E+01(1 /1) (6.90E+01 - 6.90E+01)	
BROCCOLI (PCI/KG(WET))	GROSS BETA		3	4.40E+01	1.76E+04 (1 /1) (1.76E+04 - 1.76E+04)		3.94E+03(2 /2) (2.67E+03 - 5.21E+03)	93
						93	1.76E+04(1 /1) (1.76E+04 - 1.76E+04)	
BROCCOLI (PCI/KG(WET))	GAMMA	CE-144	3	1.53E+02	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	

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BROCCOLI (PCI/KG(WET))	GAMMA	CS-134	3	2.10E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	CO-58	3	2.40E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	MN-54	3	2.00E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	FE-59	3	6.67E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	ZN-65	3	4.97E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	CO-60	3	2.17E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
BROCCOLI (PCI/KG(WET))	GAMMA	K-40	3	8.90E+02	5.50E+03 (1 /1) (5.50E+03 - 5.50E+03)		4.05E+03(2 /2) (3.90E+03 - 4.20E+03)	93
						93	5.50E+03(1 /1) (5.50E+03 - 5.50E+03)	
BROCCOLI (PCI/KG(WET))	GAMMA	BE-7	3	2.53E+02	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	ZR-95	3	5.20E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	NB-95	3	2.60E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	CE-141	3	6.50E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	RU-103	3	3.20E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	

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						STATION	STATION-MEAN(N/TOTAL) RANGE		
BROCCOLI (PCI/KG(WET))	GAMMA	BA-140	3	2.80E+02	< LLD	(0 /1)	< LLD	(0 /2)	93
						93	< LLD (0 /1)		
BROCCOLI (PCI/KG(WET))	GAMMA	LA-140	3	1.15E+02	< LLD	(0 /1)	< LLD	(0 /2)	93
						93	< LLD (0 /1)		
BROCCOLI (PCI/KG(WET))	GAMMA	RA-226	3	3.90E+02	< LLD	(0 /1)	< LLD	(0 /2)	93
						93	< LLD (0 /1)		
BROCCOLI (PCI/KG(WET))	GAMMA	TH-228	3	3.97E+01	< LLD	(0 /1)	< LLD	(0 /2)	93
						93	< LLD (0 /1)		
BROCCOLI (PCI/KG(WET))	GAMMA	I-131	3	3.30E+02	< LLD	(0 /1)	< LLD	(0 /2)	93
						93	< LLD (0 /1)		
BROCCOLI (PCI/KG(WET))	GAMMA	RU-106	3	1.73E+02	< LLD	(0 /1)	< LLD	(0 /2)	93
						93	< LLD (0 /1)		

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
BROCCOLI (PCI/KG(WET))	GAMMA	CS-137	3	2.23E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
WELL WATER (PCI/L)	GROSS ALPHA-SS		36	4.54E-01	< LLD (0 /30)		< LLD (0 /6)	1 19 20 21 22
						22	< LLD (0 /6)	
WELL WATER (PCI/L)	GROSS ALPHA-DS		36	9.58E-01	1.73E+00 (10 /30) (9.39E-01 - 2.82E+00)		2.15E+00(6 /6) (1.34E+00 - 3.57E+00)	1 19 20 21 22
						21	2.06E+00(1 /6) (2.06E+00 - 2.06E+00)	
WELL WATER (PCI/L)	GROSS BETA-SS		36	7.98E-01	< LLD (0 /30)		< LLD (0 /6)	1 19 20 21 22
						22	< LLD (0 /6)	
WELL WATER (PCI/L)	GROSS BETA-DS		36	9.69E-01	3.92E+00 (30 /30) (8.64E-01 - 2.34E+01)		3.15E+00(6 /6) (2.58E+00 - 4.19E+00)	1 19 20 21 22
						19	6.60E+00(6 /6) (1.09E+00 - 2.34E+01)	
WELL WATER (PCI/L)	POTASSIUM-40		12	2.00E-01	1.72E+00 (9 /10) (2.49E-01 - 2.32E+00)		1.02E+00(2 /2) (9.34E-01 - 1.10E+00)	1 19 20 21 22
						20	2.16E+00(2 /2) (2.08E+00 - 2.24E+00)	

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WELL WATER (PCI/L)	GAMMA	CE-144	12	2.94E+01	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	CS-134	12	3.67E+00	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	CO-58	12	3.83E+00	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	MN-54	12	3.42E+00	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	FE-59	12	8.19E+00	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	ZN-65	12	7.18E+00	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	

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WELL WATER (PCI/L)	GAMMA	CO-60	12	3.71E+00	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	K-40	12	5.53E+01	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	BE-7	12	3.88E+01	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	ZR-95	12	8.15E+00	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	NB-95	12	4.12E+00	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	CE-141	12	9.29E+00	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	RU-103	12	4.97E+00	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	BA-140	12	2.49E+01	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	LA-140	12	1.03E+01	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	RA-226	12	8.01E+01	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	TH-228	12	7.66E+00	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	I-131	12	2.13E+01	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	RU-106	12	3.25E+01	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	CS-137	12	3.94E+00	< LLD (0 /10)		< LLD (0 /2)	1 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	TRITIUM		12	1.18E+02	1.91E+02 (5 /10) (1.34E+02 - 3.38E+02)		2.09E+02(1 /2) (2.09E+02 - 2.09E+02)	1 19 20 21 22
						20	2.36E+02(2 /2) (1.35E+02 - 3.38E+02)	
WELL WATER (PCI/L)	RADIUM-226		12	1.90E-01	7.77E-01 (1 /10) (7.77E-01 - 7.77E-01)		< LLD (0 /2)	1 19 20 21 22
						20	7.77E-01(1 /2) (7.77E-01 - 7.77E-01)	
WELL WATER (PCI/L)	RADIUM-228		12	2.80E-01	6.20E-01 (4 /10) (4.51E-01 - 9.08E-01)		9.30E-01(2 /2) (8.60E-01 - 1.00E+00)	1 19 20 21 22
						20	7.66E-01(2 /2) (6.25E-01 - 9.08E-01)	
WELL WATER (PCI/L)	TOTAL URANIUM		12	3.40E-02	3.51E-02 (1 /10) (3.51E-02 - 3.51E-02)		6.46E-02(2 /2) (5.24E-02 - 7.69E-02)	1 19 20 21 22
						22	3.51E-02(1 /2) (3.51E-02 - 3.51E-02)	

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CLAMS (PCI/KG(WET))	GROSS ALPHA		24	5.33E+01	9.44E+01 (10 /18) (4.48E+01 - 2.23E+02)		1.94E+02(4 /6) (8.15E+01 - 4.49E+02)	23 24 25
						24	1.18E+02(4 /6) (7.15E+01 - 2.23E+02)	
CLAMS (PCI/KG(WET))	GROSS BETA		24	6.54E+01	2.24E+03 (18 /18) (1.45E+03 - 4.16E+03)		2.55E+03(6 /6) (1.68E+03 - 4.79E+03)	23 24 25
						24	2.34E+03(6 /6) (1.61E+03 - 4.16E+03)	
CLAMS (MG/GM(WET))	CALCIUM BY AA		8	1.29E-01	1.30E+00 (6 /6) (1.18E-01 - 3.04E+00)		1.27E+00(2 /2) (5.68E-01 - 1.97E+00)	23 24 25
						25	1.99E+00(2 /2) (1.91E+00 - 2.07E+00)	
CLAMS (PCI/KG(WET))	GAMMA	CE-144	8	4.85E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	CS-134	8	6.47E+00	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	CO-58	8	7.31E+00	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	

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CLAMS (PCI/KG(WET))	GAMMA	MN-54	8	9.51E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	FE-59	8	1.81E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	ZN-65	8	1.44E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	CO-60	8	8.59E+00	1.47E+01 (4 /6) (1.10E+01 - 1.90E+01)		< LLD (0 /2)	23 24 25
						24	1.90E+01(1 /2) (1.90E+01 - 1.90E+01)	
CLAMS (PCI/KG(WET))	GAMMA	K-40	8	2.31E+02	1.50E+03 (6 /6) (9.00E+02 - 1.90E+03)		1.50E+03(2 /2) (1.10E+03 - 1.90E+03)	23 24 25
						23	1.70E+03(2 /2) (1.50E+03 - 1.90E+03)	
CLAMS (PCI/KG(WET))	GAMMA	BE-7	8	7.35E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	

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CLAMS (PCI/KG(WET))	GAMMA	ZR-95	8	1.52E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	NB-95	8	8.16E+00	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	CE-141	8	1.82E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	RU-103	8	9.56E+00	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	BA-140	8	6.81E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	LA-140	8	2.71E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	RA-226	8	1.36E+02	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	TH-228	8	1.27E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	I-131	8	7.26E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	RU-106	8	5.60E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	CS-137	8	6.76E+00	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	STRONTIUM-89		8	3.76E+00	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	STRONTIUM-90		8	2.95E+00	1.98E+00 (1 /6) (1.98E+00 - 1.98E+00)		< LLD (0 /2)	23 24 25
						24	1.98E+00(1 /2) (1.98E+00 - 1.98E+00)	
SOIL (PCI/KG(DRY))	GROSS BETA		30	2.18E+03	7.25E+03 (30 /30) (2.18E+03 - 1.81E+04)		. (. /.) (. - .)	1 2 3 4 5
						5	1.13E+04(6 /6) (6.74E+03 - 1.81E+04)	
SOIL (PCI/KG(DRY))	GAMMA	CE-144	10	1.94E+02	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	CS-134	10	2.53E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	CO-58	10	2.58E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	MN-54	10	2.25E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	FE-59	10	6.07E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	ZN-65	10	5.06E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	CO-60	10	2.23E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	K-40	10	5.27E+02	1.21E+03 (10 /10) (2.90E+02 - 3.10E+03)		. (. /.) (. - .)	1 2 3 4 5
						1	2.00E+03(2 /2) (1.40E+03 - 2.60E+03)	
SOIL (PCI/KG(DRY))	GAMMA	BE-7	10	3.11E+02	4.30E+02 (2 /10) (1.80E+02 - 6.80E+02)		. (. /.) (. - .)	1 2 3 4 5
						1	6.80E+02(1 /2) (6.80E+02 - 6.80E+02)	
SOIL (PCI/KG(DRY))	GAMMA	ZR-95	10	6.54E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	NB-95	10	3.27E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	CE-141	10	7.75E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	RU-103	10	3.64E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	BA-140	10	3.15E+02	1.20E+02 (1 /10) (1.20E+02 - 1.20E+02)		. (. /.) (. - .)	1 2 3 4 5
						4	1.20E+02(1 /2) (1.20E+02 - 1.20E+02)	
SOIL (PCI/KG(DRY))	GAMMA	LA-140	10	2.19E+02	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	RA-226	10	4.58E+02	1.31E+03 (3 /10) (8.70E+02 - 2.20E+03)		. (. /.) (. - .)	1 2 3 4 5
						5	1.53E+03(2 /2) (8.70E+02 - 2.20E+03)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	TH-228	10	5.67E+01	3.47E+02 (10 /10) (1.30E+02 - 8.00E+02)		. (. /.) (. - .)	1 2 3 4 5
						1	5.15E+02(2 /2) (2.30E+02 - 8.00E+02)	
SOIL (PCI/KG(DRY))	GAMMA	I-131	10	4.26E+02	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	RU-106	10	1.95E+02	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	CS-137	10	6.20E+01	7.12E+02 (8 /10) (3.70E+01 - 1.70E+03)		. (. /.) (. - .)	1 2 3 4 5
						5	1.55E+03(2 /2) (1.40E+03 - 1.70E+03)	
PASTURE (PCI/KG(WET))	GROSS BETA		6	9.14E+01	8.77E+03 (6 /6) (3.26E+03 - 1.64E+04)		. (. /.) (. - .)	28 29 30
						29	1.17E+04(2 /2) (7.84E+03 - 1.56E+04)	
PASTURE (MG/GM(WET))	CALCIUM BY AA		6	1.61E-01	6.32E+00 (6 /6) (1.18E+00 - 1.36E+01)		. (. /.) (. - .)	28 29 30
						29	8.89E+00(2 /2) (4.19E+00 - 1.36E+01)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	CE-144	6	3.07E+02	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	CS-134	6	3.97E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	CO-58	6	3.67E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	MN-54	6	3.70E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	FE-59	6	9.10E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	ZN-65	6	7.65E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	CO-60	6	3.63E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	K-40	6	8.92E+02	3.28E+03 (5 /6) (1.30E+03 - 5.70E+03)		. (. /.) (. - .)	28 29 30
						29	5.05E+03(2 /2) (4.40E+03 - 5.70E+03)	
PASTURE (PCI/KG(WET))	GAMMA	BE-7	6	7.38E+02	3.26E+03 (5 /6) (9.20E+02 - 6.90E+03)		. (. /.) (. - .)	28 29 30
						30	4.20E+03(2 /2) (1.50E+03 - 6.90E+03)	
PASTURE (PCI/KG(WET))	GAMMA	ZR-95	6	8.65E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	NB-95	6	4.53E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	CE-141	6	1.03E+02	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
						STATION	STATION-MEAN(N/TOTAL) RANGE		
PASTURE (PCI/KG(WET))	GAMMA	RU-103	6	5.00E+01	< LLD	(0 /6)	. (. /.) (. - .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	GAMMA	BA-140	6	2.99E+02	< LLD	(0 /6)	. (. /.) (. - .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	GAMMA	LA-140	6	1.27E+02	< LLD	(0 /6)	. (. /.) (. - .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	GAMMA	RA-226	6	8.65E+02	< LLD	(0 /6)	. (. /.) (. - .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	GAMMA	TH-228	6	8.07E+01	< LLD	(0 /6)	. (. /.) (. - .)		28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	GAMMA	I-131	6	2.79E+02	< LLD	(0 /6)	. (. /.) (. - .)		28 29 30
						30	< LLD (0 /2)		

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	RU-106	6	3.36E+02	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	CS-137	6	5.87E+01	2.10E+02 (5 /6) (5.20E+01 - 3.40E+02)		. (. /.) (. - .)	28 29 30
						30	2.90E+02(2 /2) (2.40E+02 - 3.40E+02)	
PASTURE (PCI/KG(WET))	STRONTIUM-89		6	3.76E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	STRONTIUM-90		6	7.87E+00	4.20E+02 (6 /6) (1.84E+02 - 6.68E+02)		. (. /.) (. - .)	28 29 30
						29	6.14E+02(2 /2) (5.61E+02 - 6.68E+02)	
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		16	4.03E+03	6.44E+03 (3 /14) (5.59E+03 - 7.12E+03)		< LLD (0 /2)	23 24 25 26 27 32 33
						33	7.12E+03(1 /2) (7.12E+03 - 7.12E+03)	
SEDIMENT (PCI/KG(DRY))	GROSS BETA		16	2.20E+03	1.63E+04 (14 /14) (3.29E+03 - 3.46E+04)		2.13E+04(2 /2) (1.75E+04 - 2.50E+04)	23 24 25 26 27 32 33
						33	3.15E+04(2 /2) (2.85E+04 - 3.46E+04)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-144	40	2.15E+02	< LLD (0 /34)			< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)		
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-134	40	4.72E+01	< LLD (0 /34)			< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)		
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-58	40	3.75E+01	< LLD (0 /34)			< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)		
SEDIMENT (PCI/KG(DRY))	GAMMA	MN-54	40	3.28E+01	< LLD (0 /34)			< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)		
SEDIMENT (PCI/KG(DRY))	GAMMA	FE-59	40	9.39E+01	< LLD (0 /34)			< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)		
SEDIMENT (PCI/KG(DRY))	GAMMA	ZN-65	40	7.43E+01	< LLD (0 /34)			< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)		

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SEDIMENT (PCI/KG(DRY))	GAMMA	CO-60	40	4.50E+01	4.11E+02 (13 /34) (9.50E+01 - 1.10E+03)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	6.00E+02(6 /6) (1.60E+02 - 1.10E+03)	
SEDIMENT (PCI/KG(DRY))	GAMMA	K-40	40	9.90E+02	6.42E+03 (34 /34) (4.60E+02 - 1.50E+04)		9.95E+03(6 /6) (7.20E+03 - 1.30E+04)	23 24 25 26 27 32 33
						33	1.35E+04(6 /6) (1.20E+04 - 1.40E+04)	
SEDIMENT (PCI/KG(DRY))	GAMMA	BE-7	40	3.52E+02	5.60E+02 (2 /34) (2.60E+02 - 8.60E+02)		< LLD (0 /6)	23 24 25 26 27 32 33
						32	8.60E+02(1 /6) (8.60E+02 - 8.60E+02)	
SEDIMENT (PCI/KG(DRY))	GAMMA	ZR-95	40	8.49E+01	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	NB-95	40	4.46E+01	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-141	40	8.51E+01	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	

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SEDIMENT (PCI/KG(DRY))	GAMMA	RU-103	40	4.51E+01	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	BA-140	40	4.07E+02	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	LA-140	40	1.87E+02	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	RA-226	40	5.84E+02	1.30E+03 (18 /34) (6.60E+02 - 2.40E+03)		7.35E+02(4 /6) (5.50E+02 - 1.10E+03)	23 24 25 26 27 32 33
						33	1.90E+03(4 /6) (1.30E+03 - 2.20E+03)	
SEDIMENT (PCI/KG(DRY))	GAMMA	TH-228	40	6.86E+01	4.99E+02 (34 /34) (9.00E+01 - 1.10E+03)		4.15E+02(6 /6) (1.00E+02 - 7.80E+02)	23 24 25 26 27 32 33
						33	8.80E+02(6 /6) (7.40E+02 - 1.10E+03)	
SEDIMENT (PCI/KG(DRY))	GAMMA	I-131	40	5.50E+02	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-106	40	2.55E+02	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-137	40	4.25E+01	2.31E+02 (20 /34) (2.50E+01 - 4.10E+02)		8.20E+01(5 /6) (4.40E+01 - 1.10E+02)	23 24 25 26 27 32 33
						33	3.18E+02(6 /6) (2.90E+02 - 3.50E+02)	
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		16	7.60E+01	< LLD (0 /14)		< LLD (0 /2)	23 24 25 26 27 32 33
						33	< LLD (0 /2)	
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		16	3.88E+01	< LLD (0 /14)		< LLD (0 /2)	23 24 25 26 27 32 33
						33	< LLD (0 /2)	

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
VEGETATION (PCI/KG(WET))	GROSS BETA		15	6.35E+01	6.67E+03 (15 /15) (1.96E+03 - 1.64E+04)	. (. /.) (. - .)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		56	7.66E-04	1.21E-03 (22 /35) (5.99E-04 - 2.18E-03)	1.20E-03(15 /21) (8.41E-04 - 2.10E-03)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS BETA		56	3.16E-03	1.43E-02 (35 /35) (1.00E-02 - 2.18E-02)	1.63E-02(21 /21) (7.97E-03 - 8.84E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-144	63	2.73E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-134	63	5.45E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-58	63	5.64E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	MN-54	63	5.02E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	FE-59	63	1.37E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZN-65	63	1.24E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-60	63	6.25E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	K-40	63	1.18E-01	1.23E-01 (3 /38) (1.00E-01 - 1.60E-01)	6.00E-02(1 /25) (6.00E-02 - 6.00E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BE-7	63	6.58E-02	1.09E-01 (25 /38) (6.60E-02 - 1.50E-01)	9.19E-02(13 /25) (4.90E-02 - 1.30E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZR-95	63	1.18E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	NB-95	63	5.94E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-141	63	9.03E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-103	63	6.22E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BA-140	63	3.43E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	LA-140	63	1.71E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RA-226	63	8.41E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	TH-228	63	8.11E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	I-131	63	2.83E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-106	63	4.53E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-137	63	5.56E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		8	4.54E-04	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-90		8	1.42E-04	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-SS		24	7.97E-01	8.82E-01 (3 /15) (7.36E-01 - 1.14E+00)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-DS		24	8.85E-01	5.31E+00 (15 /15) (1.20E+00 - 1.83E+01)	2.82E+00(9 /9) (2.01E+00 - 4.39E+00)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-144	29	3.69E+01	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-134	29	4.75E+00	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-58	29	4.80E+00	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	MN-54	29	4.33E+00	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	FE-59	29	1.07E+01	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZN-65	29	9.38E+00	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-60	29	4.57E+00	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	K-40	29	9.17E+01	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	BE-7	29	4.97E+01	4.80E+01 (1 /17) (4.80E+01 - 4.80E+01)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZR-95	29	1.05E+01	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	NB-95	29	5.30E+00	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-141	29	1.18E+01	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-103	29	6.10E+00	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	BA-140	29	3.66E+01	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	LA-140	29	1.62E+01	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RA-226	29	9.60E+01	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	TH-228	29	9.01E+00	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	I-131	29	4.36E+01	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-106	29	3.98E+01	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-137	29	4.86E+00	< LLD (0 /17)	< LLD (0 /12)	1 2 3 4 5
PRECIPITATION (PCI/L)	TRITIUM		24	1.40E+02	2.53E+02 (10 /15) (1.40E+02 - 4.59E+02)	1.69E+02(5 /9) (1.44E+02 - 2.00E+02)	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-89		24	2.45E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-90		24	6.16E-01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR IODINE (PCI/M3)	IODINE-131		56	2.23E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		24	4.88E-01	4.36E-01 (1 /21) (4.36E-01 - 4.36E-01)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		24	3.67E+01	1.27E+00 (2 /21) (1.14E+00 - 1.40E+00)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-SS		24	8.05E-01	8.89E-01 (3 /21) (6.68E-01 - 1.17E+00)	1.16E+00(1 /3) (1.16E+00 - 1.16E+00)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-DS		24	2.72E+01	1.91E+02 (21 /21) (1.78E+00 - 4.14E+02)	3.90E+02(3 /3) (1.90E+02 - 5.48E+02)	23 24 25 26 27 32 33
SURFACE WATER (MG/L)	CALCIUM BY AA		24	1.00E+01	6.32E+02 (20 /21) (1.14E+01 - 2.97E+03)	1.03E+03(3 /3) (4.41E+02 - 2.18E+03)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CE-144	27	3.56E+01	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CS-134	27	4.52E+00	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CO-58	27	4.35E+00	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	MN-54	27	4.10E+00	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GAMMA	FE-59	27	9.24E+00	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	ZN-65	27	8.63E+00	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CO-60	27	4.42E+00	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	K-40	27	8.89E+01	1.67E+02 (12 /24) (1.10E+02 - 3.40E+02)	2.27E+02(3 /3) (1.70E+02 - 2.80E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	BE-7	27	4.26E+01	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	ZR-95	27	9.17E+00	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	NB-95	27	4.66E+00	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CE-141	27	1.03E+01	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RU-103	27	5.37E+00	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	BA-140	27	2.28E+01	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GAMMA	LA-140	27	9.39E+00	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RA-226	27	9.60E+01	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	TH-228	27	9.01E+00	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	I-131	27	1.65E+01	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RU-106	27	3.79E+01	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CS-137	27	4.71E+00	< LLD (0 /24)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	TRITIUM		24	1.45E+02	2.44E+02 (14 /21) (1.17E+02 - 3.57E+02)	2.07E+02(2 /3) (1.21E+02 - 2.94E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-226		24	1.84E-01	8.92E-01 (5 /21) (3.38E-01 - 1.34E+00)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-228		24	2.91E-01	7.85E-01 (10 /21) (2.67E-01 - 3.16E+00)	2.89E-01(1 /3) (2.89E-01 - 2.89E-01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-89		24	2.41E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	STRONTIUM-90		24	6.84E-01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	TOTAL URANIUM		24	3.40E-02	7.14E-01 (19 /21) (1.03E-01 - 1.66E+00)	1.36E+00(3 /3) (1.08E+00 - 1.92E+00)	23 24 25 26 27 32 33
WELL WATER (PCI/L)	GROSS ALPHA-SS		18	4.76E-01	< LLD (0 /15)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GROSS ALPHA-DS		18	1.01E+00	1.88E+00 (4 /15) (1.33E+00 - 2.82E+00)	2.38E+00(3 /3) (1.48E+00 - 3.57E+00)	1 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-SS		18	8.60E-01	< LLD (0 /15)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-DS		18	1.09E+00	4.18E+00 (15 /15) (1.09E+00 - 2.34E+01)	2.99E+00(3 /3) (2.58E+00 - 3.21E+00)	1 19 20 21 22
WELL WATER (PCI/L)	POTASSIUM-40		6	2.00E-01	1.44E+00 (4 /5) (2.49E-01 - 2.08E+00)	1.10E+00(1 /1) (1.10E+00 - 1.10E+00)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CE-144	7	3.16E+01	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-134	7	4.00E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-58	7	4.13E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	MN-54	7	3.60E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	FE-59	7	8.39E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZN-65	7	7.44E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-60	7	3.97E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	K-40	7	6.23E+01	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	BE-7	7	4.11E+01	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZR-95	7	8.67E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	NB-95	7	4.31E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CE-141	7	9.81E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-103	7	5.19E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	BA-140	7	2.57E+01	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	LA-140	7	9.39E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RA-226	7	8.36E+01	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	TH-228	7	8.31E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	I-131	7	2.08E+01	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-106	7	3.51E+01	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-137	7	4.13E+00	< LLD (0 /5)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	TRITIUM		6	1.18E+02	2.04E+02 (4 /5) (1.34E+02 - 3.38E+02)	2.09E+02(1 /1) (2.09E+02 - 2.09E+02)	1 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226		6	1.62E-01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		6	2.74E-01	6.25E-01 (1 /5) (6.25E-01 - 6.25E-01)	8.60E-01(1 /1) (8.60E-01 - 8.60E-01)	1 19 20 21 22

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1984 THROUGH AUGUST,1984
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	TOTAL URANIUM		6	3.40E-02	3.51E-02 (1 /5) (3.51E-02 - 3.51E-02)	5.24E-02(1 /1) (5.24E-02 - 5.24E-02)	1 19 20 21 22
CLAMS (PCI/KG(WET))	GROSS ALPHA		12	4.71E+01	6.98E+01 (4 /9) (4.94E+01 - 9.30E+01)	2.65E+02(2 /3) (8.15E+01 - 4.49E+02)	23 24 25
CLAMS (PCI/KG(WET))	GROSS BETA		12	6.02E+01	2.24E+03 (9 /9) (1.47E+03 - 4.16E+03)	2.28E+03(3 /3) (1.79E+03 - 3.17E+03)	23 24 25
CLAMS (MG/GM(WET))	CALCIUM BY AA		4	1.08E-01	1.74E+00 (3 /3) (1.18E-01 - 3.04E+00)	1.97E+00(1 /1) (1.97E+00 - 1.97E+00)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-144	4	5.60E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-134	4	7.60E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-58	4	8.70E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	MN-54	4	1.85E+02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	FE-59	4	2.13E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZN-65	4	1.65E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
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FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	CO-60	4	9.65E+00	1.80E+01 (2 /3) (1.70E+01 - 1.90E+01)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	K-40	4	2.38E+02	1.30E+03 (3 /3) (9.00E+02 - 1.50E+03)	1.10E+03(1 /1) (1.10E+03 - 1.10E+03)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BE-7	4	8.80E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZR-95	4	1.85E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	NB-95	4	9.97E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-141	4	2.22E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-103	4	1.18E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BA-140	4	8.95E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	LA-140	4	3.60E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RA-226	4	1.63E+02	< LLD (0 /3)	< LLD (0 /1)	23 24 25

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1984 THROUGH AUGUST,1984
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	TH-228	4	1.50E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	I-131	4	9.97E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-106	4	6.45E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-137	4	7.67E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-89		4	3.49E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-90		4	2.91E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
SOIL (PCI/KG(DRY))	GROSS BETA		15	2.13E+03	6.37E+03 (15 /15) (2.18E+03 - 1.30E+04)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-144	6	2.43E+02	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-134	6	3.12E+01	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-58	6	3.17E+01	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1984 THROUGH AUGUST,1984
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	MN-54	6	2.72E+01	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	FE-59	6	7.70E+01	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZN-65	6	6.32E+01	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-60	6	2.82E+01	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	K-40	6	6.55E+02	1.48E+03 (6 /6) (3.90E+02 - 3.10E+03)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BE-7	6	4.00E+02	6.80E+02 (1 /6) (6.80E+02 - 6.80E+02)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZR-95	6	8.10E+01	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	NB-95	6	4.07E+01	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-141	6	9.90E+01	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-103	6	4.57E+01	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1984 THROUGH AUGUST,1984
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	BA-140	6	4.03E+02	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	LA-140	6	1.69E+02	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RA-226	6	5.30E+02	2.20E+03 (1 /6) (2.20E+03 - 2.20E+03)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	TH-228	6	6.72E+01	2.69E+02 (6 /6) (7.70E+01 - 4.60E+02)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	I-131	6	5.93E+02	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-106	6	2.40E+02	< LLD (0 /6)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-137	6	7.78E+01	6.27E+02 (6 /6) (1.10E+02 - 1.40E+03)	. (. /.) (. - .)	1 2 3 4 5
PASTURE (PCI/KG(WET))	GROSS BETA		3	3.49E+01	5.27E+03 (3 /3) (3.26E+03 - 7.84E+03)	. (. /.) (. - .)	28 29 30
PASTURE (MG/GM(WET))	CALCIUM BY AA		3	1.92E-01	9.68E+00 (3 /3) (5.04E+00 - 1.36E+01)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-144	3	8.83E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30

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RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
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FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	CS-134	3	1.37E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-58	3	1.30E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	MN-54	3	1.23E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	FE-59	3	3.20E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZN-65	3	2.77E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-60	3	1.43E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	K-40	3	4.30E+02	3.13E+03 (3 /3) (1.90E+03 - 4.40E+03)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BE-7	3	2.43E+02	1.27E+03 (3 /3) (9.20E+02 - 1.50E+03)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZR-95	3	2.97E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	NB-95	3	1.47E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1984 THROUGH AUGUST,1984
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	CE-141	3	2.93E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-103	3	1.73E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BA-140	3	9.20E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	LA-140	3	3.40E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RA-226	3	2.63E+02	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	TH-228	3	2.47E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	I-131	3	7.57E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-106	3	1.16E+02	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CS-137	3	2.83E+01	1.64E+02 (3 /3) (5.20E+01 - 2.40E+02)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-89		3	3.72E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE, 1984 THROUGH AUGUST, 1984
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	STRONTIUM-90		3	1.18E+01	4.42E+02 (3 /3) (1.84E+02 - 6.68E+02)	. (. /.) (. - .)	28 29 30
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		8	3.35E+03	6.44E+03 (3 /7) (5.59E+03 - 7.12E+03)	< LLD (0 /1)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GROSS BETA		8	1.40E+03	1.44E+04 (7 /7) (3.40E+03 - 3.46E+04)	1.75E+04(1 /1) (1.75E+04 - 1.75E+04)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-144	22	1.92E+02	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-134	22	2.95E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-58	22	3.15E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	MN-54	22	2.76E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	FE-59	22	7.87E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	ZN-65	22	6.20E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-60	22	3.85E+01	3.88E+02 (7 /19) (9.50E+01 - 6.70E+02)	< LLD (0 /3)	23 24 25 26 27 32 33

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1984 THROUGH AUGUST,1984
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	K-40	22	7.83E+02	5.71E+03 (19 /19) (6.50E+02 - 1.40E+04)	8.50E+03(3 /3) (7.20E+03 - 9.70E+03)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	BE-7	22	2.97E+02	2.60E+02 (1 /19) (2.60E+02 - 2.60E+02)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	ZR-95	22	7.17E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	NB-95	22	3.62E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-141	22	7.61E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-103	22	3.80E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	BA-140	22	3.76E+02	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	LA-140	22	1.73E+02	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RA-226	22	5.18E+02	1.23E+03 (9 /19) (7.20E+02 - 2.20E+03)	6.45E+02(2 /3) (6.40E+02 - 6.50E+02)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	TH-228	22	6.05E+01	4.46E+02 (19 /19) (1.20E+02 - 9.30E+02)	4.07E+02(3 /3) (3.80E+02 - 4.20E+02)	23 24 25 26 27 32 33

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
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FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	I-131	22	5.94E+02	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-106	22	2.20E+02	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-137	22	3.56E+01	1.93E+02 (11 /19) (2.50E+01 - 3.50E+02)	8.87E+01(3 /3) (5.60E+01 - 1.10E+02)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		8	6.44E+01	< LLD (0 /7)	< LLD (0 /1)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		8	3.55E+01	< LLD (0 /7)	< LLD (0 /1)	23 24 25 26 27 32 33

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
SEPTEMBER,1984 THROUGH NOVEMBER,1984
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
VEGETATION (PCI/KG(WET))	GROSS BETA		15	5.63E+01	7.78E+03 (15 /15) (3.04E+03 - 1.19E+04)	. (. /.) (. - .)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		48	7.15E-04	1.49E-03 (27 /30) (1.38E-04 - 2.70E-03)	1.48E-03(14 /18) (1.09E-03 - 1.83E-03)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS BETA		48	2.75E-03	1.64E-02 (30 /30) (1.10E-02 - 2.67E-02)	1.59E-02(18 /18) (7.42E-03 - 2.06E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-144	52	2.54E-02	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-134	52	5.54E-03	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-58	52	5.05E-03	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	MN-54	52	5.81E-03	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	FE-59	52	1.26E-02	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZN-65	52	1.08E-02	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-60	52	5.61E-03	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
SEPTEMBER,1984 THROUGH NOVEMBER,1984
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	K-40	52	1.11E-01	8.95E-02 (2 /33) (3.90E-02 - 1.40E-01)	9.10E-02(1 /19) (9.10E-02 - 9.10E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BE-7	52	6.32E-02	6.26E-01 (25 /33) (6.20E-02 - 1.30E+01)	9.89E-02(12 /19) (7.40E-02 - 1.50E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZR-95	52	1.08E-02	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	NB-95	52	5.77E-03	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-141	52	9.36E-03	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-103	52	6.09E-03	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BA-140	52	3.78E-02	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	LA-140	52	1.94E-02	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RA-226	52	7.69E-02	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	TH-228	52	9.26E-03	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	I-131	52	3.75E-02	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-106	52	3.98E-02	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-137	52	4.88E-03	< LLD (0 /33)	< LLD (0 /19)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		8	4.78E-04	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-90		8	1.53E-04	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-SS		24	9.79E-01	2.49E+00 (3 /15) (1.79E+00 - 3.01E+00)	1.32E+00(2 /9) (1.20E+00 - 1.44E+00)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-DS		24	9.09E-01	8.82E+00 (15 /15) (1.87E+00 - 4.54E+01)	5.19E+00(9 /9) (2.84E+00 - 1.22E+01)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-144	25	3.45E+01	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-134	25	4.32E+00	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-58	25	4.20E+00	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	MN-54	25	3.92E+00	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	FE-59	25	8.88E+00	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZN-65	25	8.06E+00	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-60	25	4.25E+00	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	K-40	25	6.80E+01	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	BE-7	25	4.67E+01	< LLD (0 /15)	1.20E+02(1 /10) (1.20E+02 - 1.20E+02)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZR-95	25	9.09E+00	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	NB-95	25	4.67E+00	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-141	25	1.27E+01	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-103	25	5.48E+00	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	BA-140	25	2.40E+01	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	LA-140	25	1.00E+01	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RA-226	25	9.59E+01	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	TH-228	25	9.01E+00	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	I-131	25	1.79E+01	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-106	25	3.74E+01	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-137	25	4.54E+00	< LLD (0 /15)	< LLD (0 /10)	1 2 3 4 5
PRECIPITATION (PCI/L)	TRITIUM		24	1.33E+02	2.67E+02 (9 /15) (1.34E+02 - 3.70E+02)	2.28E+02(6 /9) (1.34E+02 - 3.65E+02)	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-89		24	3.07E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-90		24	8.75E-01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR IODINE (PCI/M3)	IODINE-131		48	2.64E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
CABBAGE (PCI/KG(WET))	GROSS BETA		4	5.30E+01	6.53E+03 (2 /2) (4.89E+03 - 8.17E+03)	5.21E+03(2 /2) (3.59E+03 - 6.84E+03)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	CE-144	5	1.46E+02	< LLD (0 /3)	< LLD (0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	CS-134	5	1.90E+01	< LLD (0 /3)	< LLD (0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	CO-58	5	2.20E+01	< LLD (0 /3)	< LLD (0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	MN-54	5	1.88E+01	< LLD (0 /3)	< LLD (0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	FE-59	5	5.98E+01	< LLD (0 /3)	< LLD (0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	ZN-65	5	4.56E+01	< LLD (0 /3)	< LLD (0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	CO-60	5	2.16E+01	< LLD (0 /3)	< LLD (0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	K-40	5	7.62E+02	3.63E+03 (3 /3) (2.70E+03 - 5.10E+03)	2.45E+03(2 /2) (2.30E+03 - 2.60E+03)	93 94

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
CABBAGE (PCI/KG(WET))	GAMMA	BE-7	5	2.50E+02	< LLD	(0 /3)	< LLD	(0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	ZR-95	5	4.82E+01	< LLD	(0 /3)	< LLD	(0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	NB-95	5	2.44E+01	< LLD	(0 /3)	< LLD	(0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	CE-141	5	5.76E+01	< LLD	(0 /3)	< LLD	(0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	RU-103	5	3.04E+01	< LLD	(0 /3)	< LLD	(0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	BA-140	5	2.42E+02	< LLD	(0 /3)	< LLD	(0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	LA-140	5	7.78E+01	< LLD	(0 /3)	< LLD	(0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	RA-226	5	4.20E+02	< LLD	(0 /3)	< LLD	(0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	TH-228	5	3.84E+01	< LLD	(0 /3)	< LLD	(0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	I-131	5	2.64E+02	< LLD	(0 /3)	< LLD	(0 /2)	93 94

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CABBAGE (PCI/KG(WET))	GAMMA	RU-106	5	1.64E+02	< LLD (0 /3)	< LLD (0 /2)	93 94
CABBAGE (PCI/KG(WET))	GAMMA	CS-137	5	2.56E+01	8.00E+01 (2 /3) (7.40E+01 - 8.60E+01)	< LLD (0 /2)	93 94
CUCUMBERS (PCI/KG(WET))	GROSS BETA		1	2.04E+01	4.11E+03 (1 /1) (4.11E+03 - 4.11E+03)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	CE-144	1	5.20E+01	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	CS-134	1	6.80E+00	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	CO-58	1	6.40E+00	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	MN-54	1	6.70E+00	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	FE-59	1	1.70E+01	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	ZN-65	1	1.50E+01	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	CO-60	1	7.30E+00	< LLD (0 /1)	. (. /.) (. - .)	91

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CUCUMBERS (PCI/KG(WET))	GAMMA	K-40	1	3.10E+02	2.40E+03 (1 /1) (2.40E+03 - 2.40E+03)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	BE-7	1	5.70E+01	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	ZR-95	1	1.40E+01	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	NB-95	1	7.70E+00	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	CE-141	1	1.60E+01	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	RU-103	1	6.90E+00	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	BA-140	1	3.60E+01	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	LA-140	1	1.40E+01	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	RA-226	1	1.50E+02	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	TH-228	1	1.30E+01	< LLD (0 /1)	. (. /.) (. - .)	91

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CUCUMBERS (PCI/KG(WET))	GAMMA	I-131	1	2.80E+01	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	RU-106	1	5.20E+01	< LLD (0 /1)	. (. /.) (. - .)	91
CUCUMBERS (PCI/KG(WET))	GAMMA	CS-137	1	1.20E+01	4.40E+01 (1 /1) (4.40E+01 - 4.40E+01)	. (. /.) (. - .)	91
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		24	4.07E-01	4.24E-01 (2 /21) (3.73E-01 - 4.76E-01)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		24	5.64E+01	1.37E+00 (1 /21) (1.37E+00 - 1.37E+00)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-SS		24	8.44E-01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-DS		24	4.58E+01	2.36E+02 (20 /21) (2.05E+00 - 4.49E+02)	4.03E+02(3 /3) (3.63E+02 - 4.34E+02)	23 24 25 26 27 32 33
SURFACE WATER (MG/L)	CALCIUM BY AA		24	1.00E+01	4.10E+02 (16 /21) (2.44E+01 - 8.87E+02)	5.40E+02(3 /3) (3.98E+02 - 7.46E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CE-144	26	2.42E+01	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CS-134	26	3.45E+00	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33

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SURFACE WATER (PCI/L)	GAMMA	CO-58	26	3.65E+00	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	MN-54	26	3.26E+00	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	FE-59	26	8.52E+00	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	ZN-65	26	7.27E+00	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CO-60	26	3.33E+00	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	K-40	26	7.56E+01	1.95E+02 (10 /22) (5.20E+01 - 2.70E+02)	2.13E+02(3 /4) (1.50E+02 - 2.80E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	BE-7	26	3.65E+01	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	ZR-95	26	7.86E+00	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	NB-95	26	4.07E+00	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CE-141	26	8.70E+00	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33

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SURFACE WATER (PCI/L)	GAMMA	RU-103	26	4.81E+00	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	BA-140	26	2.75E+01	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	LA-140	26	1.19E+01	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RA-226	26	6.56E+01	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	TH-228	26	6.14E+00	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	I-131	26	3.11E+01	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RU-106	26	2.96E+01	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CS-137	26	3.52E+00	< LLD (0 /22)	< LLD (0 /4)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	TRITIUM		24	1.16E+02	1.73E+02 (10 /21) (1.06E+02 - 2.54E+02)	1.99E+02(1 /3) (1.99E+02 - 1.99E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-226		24	1.43E-01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33

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SURFACE WATER (PCI/L)	RADIUM-228		24	2.47E-01	4.89E-01 (7 /21) (2.58E-01 - 9.07E-01)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-89		24	2.59E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-90		24	8.24E-01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	TOTAL URANIUM		24	3.40E-02	9.08E-01 (21 /21) (5.58E-02 - 1.51E+00)	1.29E+00(3 /3) (1.18E+00 - 1.44E+00)	23 24 25 26 27 32 33
GREEN BEANS (PCI/KG(WET))	GROSS BETA		1	5.77E+01	1.13E+04 (1 /1) (1.13E+04 - 1.13E+04)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	CE-144	2	1.03E+02	< LLD (0 /2)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	CS-134	2	1.70E+01	< LLD (0 /2)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	CO-58	2	1.95E+01	< LLD (0 /2)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	MN-54	2	1.65E+01	< LLD (0 /2)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	FE-59	2	4.80E+01	< LLD (0 /2)	. (. /.) (. - .)	91

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
GREEN BEANS (PCI/KG(WET))	GAMMA	ZN-65	2	4.10E+01	< LLD (0 /2)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	CO-60	2	1.95E+01	< LLD (0 /2)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	K-40	2	7.15E+02	4.35E+03 (2 /2) (4.20E+03 - 4.50E+03)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	BE-7	2	1.85E+02	< LLD (0 /2)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	ZR-95	2	3.65E+01	< LLD (0 /2)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	NB-95	2	1.95E+01	< LLD (0 /2)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	CE-141	2	3.65E+01	< LLD (0 /2)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	RU-103	2	2.35E+01	< LLD (0 /2)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	BA-140	2	1.50E+02	< LLD (0 /2)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	LA-140	2	5.60E+01	< LLD (0 /2)	. (. /.) (. - .)	91

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
GREEN BEANS (PCI/KG(WET))	GAMMA	RA-226	2	2.95E+02	< LLD (0 /2) (. - .)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	TH-228	2	2.50E+01	< LLD (0 /2) (. - .)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	I-131	2	1.25E+02	< LLD (0 /2) (. - .)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	RU-106	2	1.55E+02	< LLD (0 /2) (. - .)	. (. /.) (. - .)	91
GREEN BEANS (PCI/KG(WET))	GAMMA	CS-137	2	1.85E+01	< LLD (0 /2) (. - .)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GROSS BETA		1	2.83E+01	4.96E+03 (1 /1) (4.96E+03 - 4.96E+03)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	CE-144	1	3.20E+01	< LLD (0 /1) (. - .)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	CS-134	1	5.50E+00	< LLD (0 /1) (. - .)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	CO-58	1	5.90E+00	< LLD (0 /1) (. - .)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	MN-54	1	5.00E+00	< LLD (0 /1) (. - .)	. (. /.) (. - .)	91

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
TOMATOES (PCI/KG(WET))	GAMMA	FE-59	1	1.50E+01	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	ZN-65	1	1.40E+01	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	CO-60	1	5.80E+00	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	K-40	1	2.70E+02	2.40E+03 (1 /1) (2.40E+03 - 2.40E+03)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	BE-7	1	5.50E+01	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	ZR-95	1	1.20E+01	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	NB-95	1	5.80E+00	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	CE-141	1	9.90E+00	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	RU-103	1	6.70E+00	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	BA-140	1	3.10E+01	< LLD (0 /1)	. (. /.) (. - .)	91

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
TOMATOES (PCI/KG(WET))	GAMMA	LA-140	1	1.30E+01	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	RA-226	1	9.50E+01	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	TH-228	1	8.70E+00	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	I-131	1	2.40E+01	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	RU-106	1	4.80E+01	< LLD (0 /1)	. (. /.) (. - .)	91
TOMATOES (PCI/KG(WET))	GAMMA	CS-137	1	7.00E+00	< LLD (0 /1)	. (. /.) (. - .)	91
TURNIP GREENS (PCI/KG(WET))	GROSS BETA		2	7.82E+01	3.70E+03 (1 /1) (3.70E+03 - 3.70E+03)	6.19E+03(1 /1) (6.19E+03 - 6.19E+03)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	CE-144	2	1.38E+02	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	CS-134	2	1.00E+01	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	CO-58	2	1.05E+01	< LLD (0 /1)	< LLD (0 /1)	94

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
TURNIP GREENS (PCI/KG(WET))	GAMMA	MN-54	2	9.35E+00	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	FE-59	2	2.60E+01	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	ZN-65	2	2.20E+01	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	CO-60	2	9.35E+00	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	K-40	2	3.95E+02	2.40E+03 (1 /1) (2.40E+03 - 2.40E+03)	3.70E+03(1 /1) (3.70E+03 - 3.70E+03)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	BE-7	2	1.10E+02	< LLD (0 /1)	2.20E+02(1 /1) (2.20E+02 - 2.20E+02)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	ZR-95	2	2.25E+01	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	NB-95	2	1.15E+01	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	CE-141	2	4.60E+01	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	RU-103	2	1.35E+01	< LLD (0 /1)	< LLD (0 /1)	94

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TURNIP GREENS (PCI/KG(WET))	GAMMA	BA-140	2	5.65E+01	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	LA-140	2	2.55E+01	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	RA-226	2	1.04E+02	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	TH-228	2	1.49E+01	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	I-131	2	6.35E+01	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	RU-106	2	9.15E+01	< LLD (0 /1)	< LLD (0 /1)	94
TURNIP GREENS (PCI/KG(WET))	GAMMA	CS-137	2	1.55E+01	1.10E+02 (1 /1) (1.10E+02 - 1.10E+02)	1.50E+01(1 /1) (1.50E+01 - 1.50E+01)	94
SWISS CHARD (PCI/KG(WET))	GROSS BETA		1	6.27E+01	2.25E+03 (1 /1) (2.25E+03 - 2.25E+03)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	CE-144	1	8.80E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	CS-134	1	1.10E+01	< LLD (0 /1)	. (. /.) (. - .)	94

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SWISS CHARD (PCI/KG(WET))	GAMMA	CO-58	1	1.10E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	MN-54	1	1.00E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	FE-59	1	2.50E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	ZN-65	1	2.50E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	CO-60	1	8.90E+00	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	K-40	1	3.40E+02	1.20E+03 (1 /1) (1.20E+03 - 1.20E+03)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	BE-7	1	1.10E+02	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	ZR-95	1	2.60E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	NB-95	1	1.30E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	CE-141	1	2.80E+01	< LLD (0 /1)	. (. /.) (. - .)	94

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SWISS CHARD (PCI/KG(WET))	GAMMA	RU-103	1	1.40E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	BA-140	1	7.90E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	LA-140	1	3.00E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	RA-226	1	2.10E+02	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	TH-228	1	2.00E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	I-131	1	7.00E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	RU-106	1	8.60E+01	< LLD (0 /1)	. (. /.) (. - .)	94
SWISS CHARD (PCI/KG(WET))	GAMMA	CS-137	1	1.60E+01	6.90E+01 (1 /1) (6.90E+01 - 6.90E+01)	. (. /.) (. - .)	94
BROCCOLI (PCI/KG(WET))	GROSS BETA		3	4.40E+01	1.76E+04 (1 /1) (1.76E+04 - 1.76E+04)	3.94E+03(2 /2) (2.67E+03 - 5.21E+03)	93
BROCCOLI (PCI/KG(WET))	GAMMA	CE-144	3	1.53E+02	< LLD (0 /1)	< LLD (0 /2)	93

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BROCCOLI (PCI/KG(WET))	GAMMA	CS-134	3	2.10E+01	< LLD (0 /1)	< LLD (0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	CO-58	3	2.40E+01	< LLD (0 /1)	< LLD (0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	MN-54	3	2.00E+01	< LLD (0 /1)	< LLD (0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	FE-59	3	6.67E+01	< LLD (0 /1)	< LLD (0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	ZN-65	3	4.97E+01	< LLD (0 /1)	< LLD (0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	CO-60	3	2.17E+01	< LLD (0 /1)	< LLD (0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	K-40	3	8.90E+02	5.50E+03 (1 /1) (5.50E+03 - 5.50E+03)	4.05E+03(2 /2) (3.90E+03 - 4.20E+03)	93
BROCCOLI (PCI/KG(WET))	GAMMA	BE-7	3	2.53E+02	< LLD (0 /1)	< LLD (0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	ZR-95	3	5.20E+01	< LLD (0 /1)	< LLD (0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	NB-95	3	2.60E+01	< LLD (0 /1)	< LLD (0 /2)	93

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BROCCOLI (PCI/KG(WET))	GAMMA	CE-141	3	6.50E+01	< LLD	(0 /1)	< LLD	(0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	RU-103	3	3.20E+01	< LLD	(0 /1)	< LLD	(0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	BA-140	3	2.80E+02	< LLD	(0 /1)	< LLD	(0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	LA-140	3	1.15E+02	< LLD	(0 /1)	< LLD	(0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	RA-226	3	3.90E+02	< LLD	(0 /1)	< LLD	(0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	TH-228	3	3.97E+01	< LLD	(0 /1)	< LLD	(0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	I-131	3	3.30E+02	< LLD	(0 /1)	< LLD	(0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	RU-106	3	1.73E+02	< LLD	(0 /1)	< LLD	(0 /2)	93
BROCCOLI (PCI/KG(WET))	GAMMA	CS-137	3	2.23E+01	< LLD	(0 /1)	< LLD	(0 /2)	93
WELL WATER (PCI/L)	GROSS ALPHA-SS		18	4.32E-01	< LLD	(0 /15)	< LLD	(0 /3)	1 19 20 21 22

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WELL WATER (PCI/L)	GROSS ALPHA-DS		18	9.09E-01	1.63E+00 (6 /15) (9.39E-01 - 2.23E+00)	1.92E+00(3 /3) (1.34E+00 - 2.71E+00)	1 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-SS		18	7.35E-01	< LLD (0 /15)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-DS		18	8.52E-01	3.67E+00 (15 /15) (8.64E-01 - 1.00E+01)	3.31E+00(3 /3) (2.80E+00 - 4.19E+00)	1 19 20 21 22
WELL WATER (PCI/L)	POTASSIUM-40		6	2.00E-01	1.94E+00 (5 /5) (1.45E+00 - 2.32E+00)	9.34E-01(1 /1) (9.34E-01 - 9.34E-01)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CE-144	6	2.90E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-134	6	3.63E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-58	6	3.80E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	MN-54	6	3.47E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	FE-59	6	8.43E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZN-65	6	7.32E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22

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WELL WATER (PCI/L)	GAMMA	CO-60	6	3.80E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	K-40	6	5.02E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	BE-7	6	3.95E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZR-95	6	8.18E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	NB-95	6	4.18E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CE-141	6	9.47E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-103	6	5.17E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	BA-140	6	2.68E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	LA-140	6	1.18E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RA-226	6	8.10E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	TH-228	6	7.62E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	I-131	6	2.47E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-106	6	3.25E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-137	6	4.02E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	TRITIUM		6	1.17E+02	1.35E+02 (1 /5) (1.35E+02 - 1.35E+02)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226		6	2.19E-01	7.77E-01 (1 /5) (7.77E-01 - 7.77E-01)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		6	2.86E-01	6.18E-01 (3 /5) (4.51E-01 - 9.08E-01)	1.00E+00(1 /1) (1.00E+00 - 1.00E+00)	1 19 20 21 22
WELL WATER (PCI/L)	TOTAL URANIUM		6	3.40E-02	< LLD (0 /5)	7.69E-02(1 /1) (7.69E-02 - 7.69E-02)	1 19 20 21 22
CLAMS (PCI/KG(WET))	GROSS ALPHA		12	5.89E+01	1.11E+02 (6 /9) (4.48E+01 - 2.23E+02)	1.22E+02(2 /3) (1.18E+02 - 1.26E+02)	23 24 25
CLAMS (PCI/KG(WET))	GROSS BETA		12	7.06E+01	2.24E+03 (9 /9) (1.45E+03 - 3.83E+03)	2.82E+03(3 /3) (1.68E+03 - 4.79E+03)	23 24 25

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (MG/GM(WET))	CALCIUM BY AA		4	1.49E-01	8.55E-01 (3 /3) (3.08E-01 - 1.91E+00)	5.68E-01(1 /1) (5.68E-01 - 5.68E-01)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-144	4	4.10E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-134	4	5.35E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-58	4	5.92E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	MN-54	4	4.85E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	FE-59	4	1.50E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZN-65	4	1.22E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-60	4	7.52E+00	1.15E+01 (2 /3) (1.10E+01 - 1.20E+01)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	K-40	4	2.25E+02	1.70E+03 (3 /3) (1.50E+03 - 1.90E+03)	1.90E+03(1 /1) (1.90E+03 - 1.90E+03)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BE-7	4	5.90E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	ZR-95	4	1.20E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	NB-95	4	6.35E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-141	4	1.41E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-103	4	7.32E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BA-140	4	4.67E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	LA-140	4	1.82E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RA-226	4	1.10E+02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	TH-228	4	1.04E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	I-131	4	4.55E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-106	4	4.75E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	CS-137	4	5.85E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-89		4	4.02E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-90		4	2.99E+00	1.98E+00 (1 /3) (1.98E+00 - 1.98E+00)	< LLD (0 /1)	23 24 25
SOIL (PCI/KG(DRY))	GROSS BETA		15	2.23E+03	8.13E+03 (15 /15) (3.04E+03 - 1.81E+04)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-144	5	1.71E+02	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-134	5	1.78E+01	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-58	5	1.86E+01	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	MN-54	5	1.68E+01	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	FE-59	5	4.24E+01	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZN-65	5	3.50E+01	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	CO-60	5	1.49E+01	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	K-40	5	3.74E+02	8.56E+02 (5 /5) (2.90E+02 - 2.60E+03)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BE-7	5	1.94E+02	1.80E+02 (1 /5) (1.80E+02 - 1.80E+02)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZR-95	5	4.48E+01	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	NB-95	5	2.24E+01	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-141	5	6.22E+01	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-103	5	2.46E+01	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BA-140	5	1.78E+02	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	LA-140	5	2.48E+02	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RA-226	5	2.88E+02	8.70E+02 (2 /5) (8.70E+02 - 8.70E+02)	. (. /.) (. - .)	1 2 3 4 5

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	TH-228	5	4.04E+01	3.86E+02 (5 /5) (1.90E+02 - 8.00E+02)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	I-131	5	2.40E+02	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-106	5	1.39E+02	< LLD (0 /5)	. (. /.) (. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-137	5	3.68E+01	5.42E+02 (4 /5) (3.70E+01 - 1.70E+03)	. (. /.) (. - .)	1 2 3 4 5
PASTURE (PCI/KG(WET))	GROSS BETA		3	1.48E+02	1.23E+04 (3 /3) (4.81E+03 - 1.64E+04)	. (. /.) (. - .)	28 29 30
PASTURE (MG/GM(WET))	CALCIUM BY AA		3	1.30E-01	2.97E+00 (3 /3) (1.18E+00 - 4.19E+00)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-144	3	5.27E+02	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CS-134	3	6.57E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-58	3	6.03E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	MN-54	3	6.17E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	FE-59	3	1.50E+02	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZN-65	3	1.25E+02	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-60	3	5.83E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	K-40	3	1.35E+03	3.50E+03 (2 /3) (1.30E+03 - 5.70E+03)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BE-7	3	1.23E+03	6.25E+03 (2 /3) (5.60E+03 - 6.90E+03)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZR-95	3	1.43E+02	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	NB-95	3	7.60E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-141	3	1.77E+02	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-103	3	8.27E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BA-140	3	5.07E+02	< LLD (0 /3)	. (. /.) (. - .)	28 29 30

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	LA-140	3	2.20E+02	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RA-226	3	1.47E+03	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	TH-228	3	1.37E+02	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	I-131	3	4.83E+02	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-106	3	5.57E+02	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CS-137	3	8.90E+01	2.80E+02 (2 /3) (2.20E+02 - 3.40E+02)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-89		3	3.79E+01	< LLD (0 /3)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-90		3	3.92E+00	3.99E+02 (3 /3) (2.14E+02 - 5.61E+02)	. (. /.) (. - .)	28 29 30
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		8	4.72E+03	< LLD (0 /7)	< LLD (0 /1)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GROSS BETA		8	3.00E+03	1.83E+04 (7 /7) (3.29E+03 - 3.37E+04)	2.50E+04(1 /1) (2.50E+04 - 2.50E+04)	23 24 25 26 27 32 33

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-144	22	2.28E+02	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-134	22	6.13E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-58	22	4.18E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	MN-54	22	3.67E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	FE-59	22	1.04E+02	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	ZN-65	22	8.35E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-60	22	5.04E+01	4.54E+02 (7 /19) (1.30E+02 - 1.10E+03)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	K-40	22	1.16E+03	6.68E+03 (19 /19) (4.60E+02 - 1.50E+04)	1.14E+04(3 /3) (8.20E+03 - 1.30E+04)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	BE-7	22	3.89E+02	8.60E+02 (1 /19) (8.60E+02 - 8.60E+02)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	ZR-95	22	9.43E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33

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SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	NB-95	22	5.06E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-141	22	8.92E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-103	22	4.95E+01	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	BA-140	22	4.03E+02	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	LA-140	22	1.84E+02	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RA-226	22	6.31E+02	1.28E+03 (11 /19) (6.60E+02 - 2.40E+03)	8.25E+02(2 /3) (5.50E+02 - 1.10E+03)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	TH-228	22	7.44E+01	5.31E+02 (19 /19) (9.00E+01 - 1.10E+03)	4.23E+02(3 /3) (1.00E+02 - 7.80E+02)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	I-131	22	4.45E+02	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-106	22	2.80E+02	< LLD (0 /19)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-137	22	4.74E+01	2.79E+02 (10 /19) (7.20E+01 - 4.10E+02)	7.20E+01(2 /3) (4.40E+01 - 1.00E+02)	23 24 25 26 27 32 33

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SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		8	8.75E+01	< LLD (0 /7)	< LLD (0 /1)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		8	4.22E+01	< LLD (0 /7)	< LLD (0 /1)	23 24 25 26 27 32 33

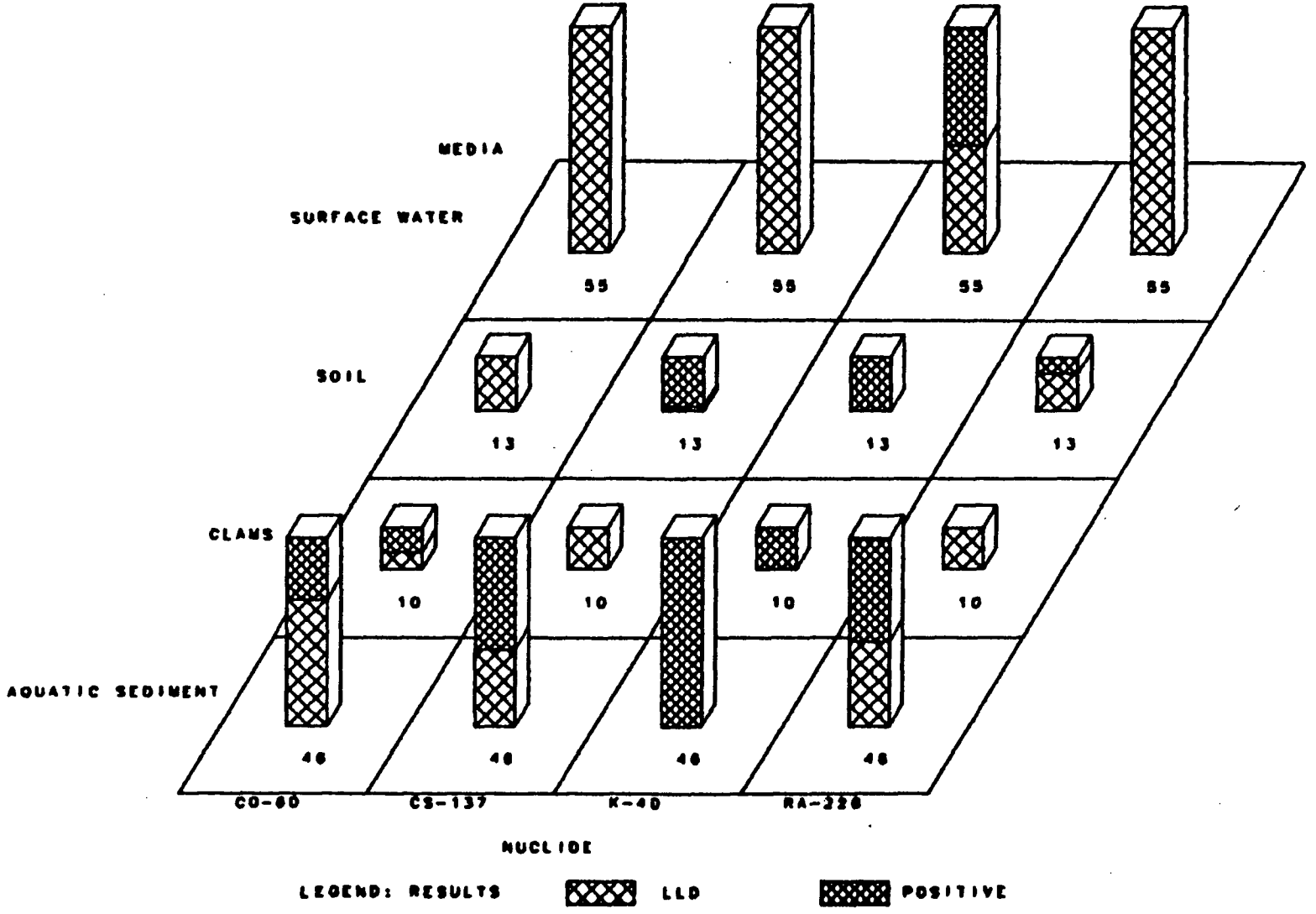
Analysis of Data

Data for the reporting period June through November, 1984 was analyzed by comparing results to historical ranges according to media, station, and analysis to determine which results, if any, were outside the normal or historical range of environmental activities. In some cases (e.g., Sr-89, 90 in air particulate) there was an insufficient amount of historical data to make comparisons since these analyses have only been implemented recently as part of an ongoing effort to continually upgrade the Radiological Environmental Monitoring Program. In cases where sample activity fell outside the historical ranges, data were then compared to levels at background stations to determine if further analysis was necessary. Lastly, the source of production (e.g., cosmic, natural, fallout, etc.) was examined to ascertain whether or not further investigation was necessary.

The majority of nuclides detected in environmental media can be attributed to two major sources: natural production and fallout from nuclear weapons testing. Although naturally-occurring nuclides such as Ra-226 and K-40 were observed to be elevated 1.5 to 2 times normal during the reporting period, their increase can be attributed to natural fluctuation due to other influences and are not considered to be abnormal, nor are they related in any way to facility effluents. For example, K-40 levels on air particulate filters can be attributed to dust loading during windy months of the reporting period. Some nuclides detected in environmental media are depicted in Figure 9. Values at the base of each block indicate the number of samples collected and are

FIGURE 9

GAMMA ISOTOPES IN ENVIRONMENTAL MEDIA



represented by the height of each block. Although gamma detection limits are not as low as those of gross alpha, Ra-226 detected in surface water is presumed to be the prime contributor to elevated gross alpha-dissolved and gross alpha-suspended activities detected during the reporting period. Radium accounts for more than 1000 megacuries in global seawater (Choppin and Rydberg, 1980) and other natural alpha contributors to seawater are Thorium and Uranium (Whicker and Shultz, 1982). Indeed, measurable amounts of total Uranium (tables 14, 15, and 16) in surface water, while not above normal, were detected during the reporting period. All of these factors coupled together are believed to be the source of the slightly elevated alpha activities detected during the period.

Elevated gross beta in clams during the period can be attributed to K-40 (Whicker and Shultz, 1982) and not to facility effluents, especially since the elevated results were also observed at background station #31. K-40 is also believed to be a partial contributor to elevated gross beta activities in soil and vegetation seen during the period. K-40 and Ra-228 were detected at both background and indicator well water stations. Their presence there is thought to account for the gross beta activity in dissolved solids that was found to be 2 to 4 times that previously found.

Evidence of past facility liquid discharges, as discussed in previous effluent reports was once again present at some stations and media. Co-60 in clams and aquatic sediment (Figure 9, Table 14) from stations in and around the mouth of Oyster Creek's discharge canal was detected.

Probably the largest contributor to elevated results during the semiannual period was that of fallout from nuclear weapons testing. Measurable amounts of tritium (459 pCi/l in precipitation and 357 pCi/l in surface water) although well below the federal limit of 20,000 pCi/l (APHA, 1981) were detected at both background and indicator stations. A block chart (Figure 9) depicts the relative percentages of Cs-137 detected in soil and aquatic sediment. As is evident from Table 14, it is routinely detected in these media at both background and indicator stations. The premise that its presence is due to fallout rather than facility releases was borne out by sampling green leafy vegetables during harvest time. Cs-137 was found in similar amounts at both indicator and background stations. Of the vegetables in which Cs-137 was detected, the average activity (pCi/kg - wet) is compared to that of soil and aquatic sediment (pCi/kg - dry) in Figure 10. Finally, radiation in the environment was also measured by the exposure of thermoluminescent dosimeters. The results of these measurements are found in table 12 and as depicted in Figure 11, background station averages were above those at indicator stations thereby indicating irradiation from sources other than Oyster Creek.

In conclusion, except where noted, quantities of radioisotopes detected in the environment were due to sources other than facility effluents. None of the measurable activities detected during the reporting period were considered to be abnormal.

FIGURE 10

CS-137 ACTIVITY IN ENVIRONMENTAL MEDIA DUE TO ATMOSPHERIC FALLOUT

MEAN OF RESULT GROUPED BY MEDIA

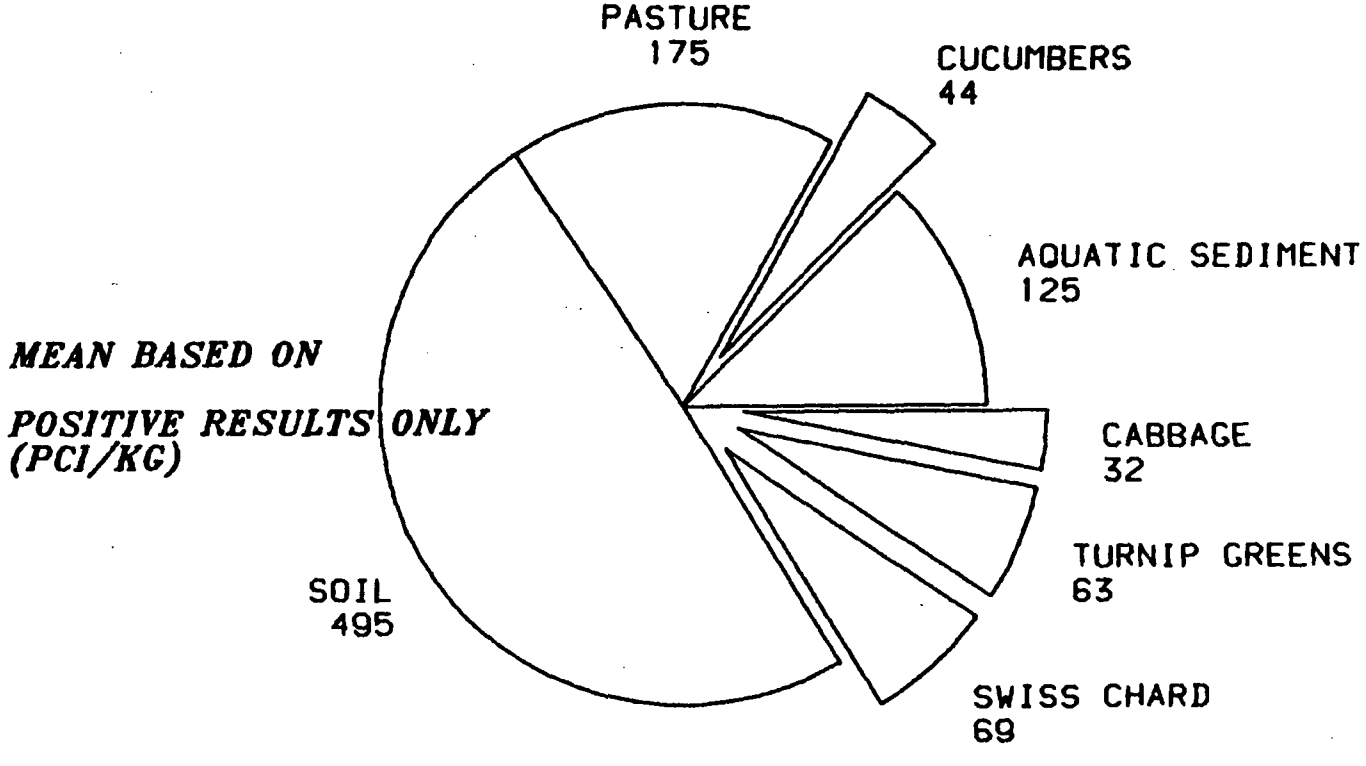
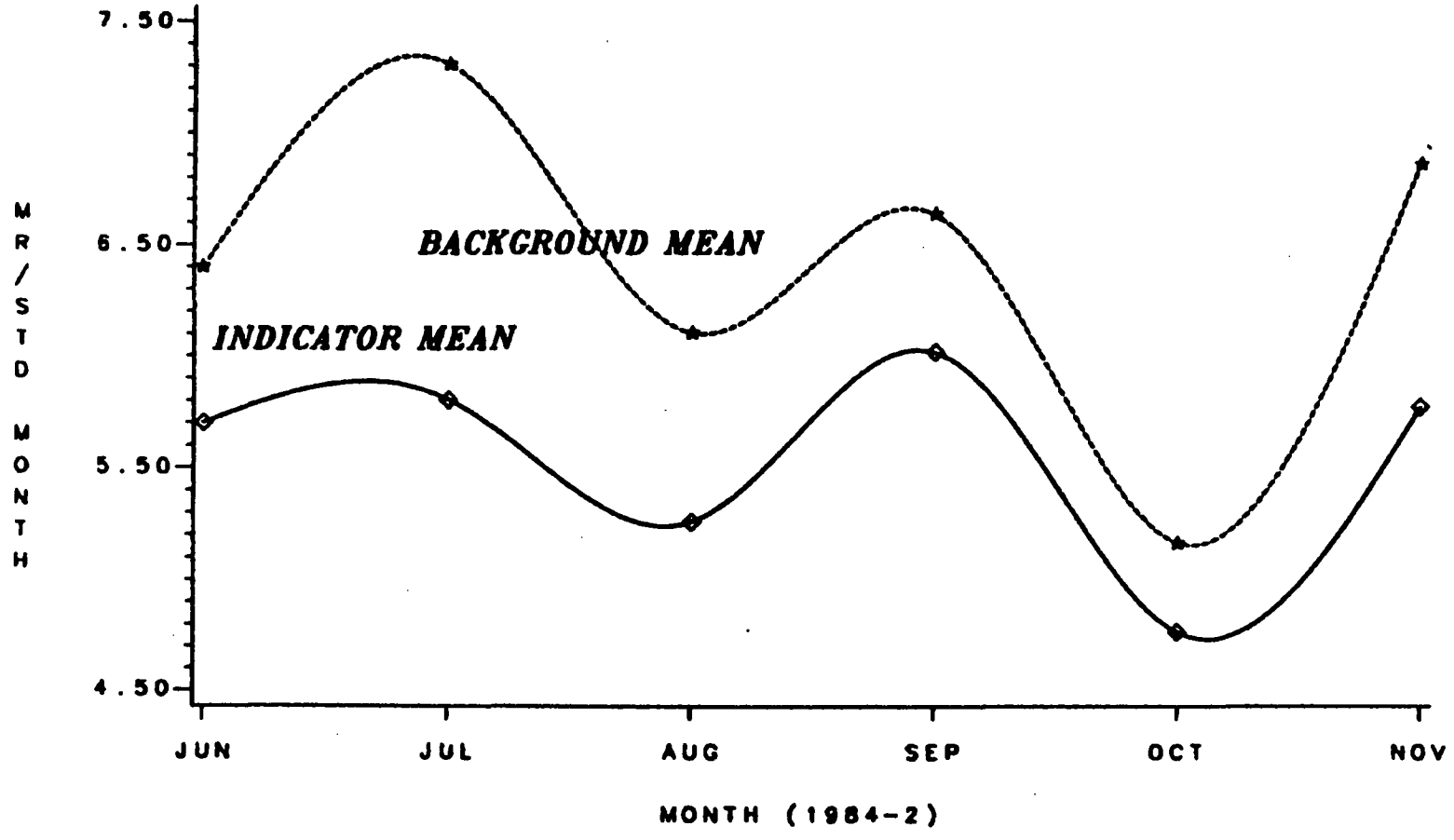


FIGURE 11

OYSTER CREEK NUCLEAR GENERATING STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
MONTHLY TLD AVERAGE EXPOSURES



RADIOLOGICAL IMPACT ON MAN

Two principle exposure pathways, inhalation and ingestion, are available to gaseous and liquid effluent isotopes, respectively, in the vicinity of Oyster Creek. Intakes via the inhalation pathway are from gaseous effluents, while the ingestion pathway is via consumption of shellfish from Oyster Creek's discharge canal and Barnegat Bay and consumption of garden vegetables. Additionally, a third means of exposure is from direct radiation from Oyster Creek effluents. The maximum hypothetical exposure to any individual from liquid pathways would occur to someone standing at the offsite boundary on the shore of the discharge canal (direct exposure) and who consumes shellfish (ingestion). For purposes of this report this hypothetical individual is designated as Receptor #1. Maximum exposure due to gaseous pathways (inhalation, ingestion, and direct radiation) would depend on the predominant wind direction and the location of persons living in a given sector with respect to the plant. The direction and distance for this individual is given in Tables 17 and 18.

The following tables represent the offsite dose summary for the two quarters of the six-month reporting period. The information provided was calculated using the models and methodology outlined in NRC Regulatory Guide 1.109 and proposed NRC Regulatory Guide 1.111. The analysis herein represents the maximum hypothetical liquid and gaseous pathway individual doses (Tables 17, 18, and 19). Also included are the appropriate dose limits as given in 10CFR50, Appendix I, the age group, and the receptor location. The semiannual estimated dose and percent of applicable limit

complete the offsite dose assessment of maximum hypothetical doses for the semiannual period.

For both quarterly periods, the maximum individual exposures resulting from OCNGS operation from all pathways are below the NRC limits of 10 CFR 50, Appendix I and in turn, concentrations in environmental media were well below concentrations in 10 CFR 20, Appendix B, Table II. Monthly analysis of thermoluminescent dosimeters (TLD) for gamma exposure confirm that average doses at indicator stations were below those of background stations (Table 12).

TABLE 17

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE

PERIOD FROM JULY 1, 1984 THROUGH SEPTEMBER 30, 1984

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (MREM)	AGE GROUP	LOCATION DIST (m)	LOCATION DIR (TOWARD)
LIQUID	TOTAL BODY	6.67 E-4	TEEN	RECEPTOR 1	
LIQUID	GI-TRACT	3.44 E-3	ADULT	RECEPTOR 1	
NOBLE GAS*	AIR DOSE (γ-MRAD)	-		-	-
NOBLE GAS*	AIR DOSE (β-MRAD)	-		-	-
NOBLE GAS*	TOTAL BODY	-		-	-
NOBLE GAS*	SKIN	-		-	-
IODINE & PARTICULATE	BONE	1.31 E-4	CHILD	966	SE

* Noble Gas Activity during the period was below the lower limit of detection. Therefore, dose assessment could not be performed.

TABLE 18

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE

PERIOD FROM OCTOBER 1, 1984 THROUGH DECEMBER 31, 1984

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (MREM)	AGE GROUP	LOCATION DIST (m)	LOCATION DIR (TOWARD)
LIQUID	TOTAL BODY	3.08 E-6	ADULT	RECEPTOR 1	
LIQUID	LIVER	3.08 E-6	ADULT	RECEPTOR 1	
NOBLE GAS	AIR DOSE (γ-MRAD)	1.72 E-1		430	ESE
NOBLE GAS	AIR DOSE (β-MRAD)	6.49 E-3		3218	S
NOBLE GAS	TOTAL BODY	2.11 E-1	ALL	966	SE
NOBLE GAS	SKIN	2.11 E-1	ALL	966	SE
IODINE & PARTICULATE	THYROID	5.49 E-3	INFANT	1448	ESE

TABLE 19

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE

PERIOD FROM JULY 1, 1984 THROUGH DECEMBER 31, 1984

EFFLUENT	APPLICABLE ORGAN	SEMIANNUAL ESTIMATED DOSE (MREM)	ANNUAL % APPLIC. LIMIT	ANNUAL LIMIT (MR)
LIQUID	TOTAL BODY	6.70 E-4	2.23 E-2	3.0
LIQUID	GI-TRACT	3.44 E-3	3.44 E-2	10.0
NOBLE GAS	AIR DOSE (γ-MRAD)	1.72 E-1	1.7	10.0
NOBLE GAS	AIR DOSE (β-MRAD)	6.49 E-3	3.25 E-2	20.0
NOBLE GAS	TOTAL BODY	2.11 E-1	4.2	5.0
NOBLE GAS	SKIN	2.11 E-1	1.41 E-3	15.0
IODINE & PARTICULATE	THYROID	5.62 E-3	3.75 E-2	15.0

IV. REFERENCES

REFERENCES

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