RETS MASTER FILE

GPU Nuclear

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P.O. Box 388
Forked River, New Jersey 08731
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Writer's Direct Dial Number:

February 29, 1984

Regional Administrator
Region I
U.S. Nuclear Regulatory Commission
Docket No. 50219
631 Park Avenue
King of Prussia, PA 18406

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 June through December, 1983. This submittal is made in accordance with 10 CFR 50.36 a (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,

[redacted] Fiedler
Vice President and Director
Oyster Creek

/jc
Atts.

c.c. Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

NRC Resident Inspector
Oyster Creek Nuclear Generating Station
Forked River, N.J. 08731

N.J. Bureau of Radiation Protection
Attention: Chief
Division of Environmental Quality
United Sierra Building
380 Scotch Road
West Trenton, N.J. 08625

IE25
1/1

GPU NUCLEAR CORPORATION

OYSTER CREEK NUCLEAR GENERATING STATION

EFFLUENT RELEASE REPORT

1983-2

SUMMARY

OYSTER CREEK NUCLEAR GENERATING STATION

1983-2 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 entire period of June through December.

Section II summarizes the meteorological data and effluents released from the facility for the reporting period. It itemizes gaseous releases of 1.62 curies of Tritium and 1.27 E-3 curies of particulate radioactivity. No fission and activation gas activity or non-particulate halogen activity was detected in gaseous releases. In addition, 8.13 E-4 curies of fission and activation products and 1.62 curies of Tritium were released in 5 batch liquid releases. No dissolved gaseous activity was detected in liquid releases during the period. Section II also itemizes 2.92E2 curies of radioactivity, contained in 5.04E2 cubic meters of waste, which was shipped offsite in 37 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 weapon 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, 1983 through December 31, 1983. This summary reports dates of reactor scrams, controlled reactor shutdowns, reactor startups, and selected reactor power levels.

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, 1983 through December 31, 1983. 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, 1983 through November, 1983 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 correlates plant effluent releases to radiological environmental data.

PLANT OPERATIONS SUMMARY

June 1, 1983	Reactor Shutdown
June 15, 1983	Reactor Shutdown
June 30, 1983	Reactor Shutdown
July 15, 1983	Reactor Shutdown
July 31, 1983	Reactor Shutdown
August 15, 1983	Reactor Shutdown
August 31, 1983	Reactor Shutdown
September 15, 1983	Reactor Shutdown
September 30, 1983	Reactor Shutdown
October 15, 1983	Reactor Shutdown
October 31, 1983	Reactor Shutdown
November 15, 1983	Reactor Shutdown
November 30, 1983	Reactor Shutdown
December 15, 1983	Reactor Shutdown
December 31, 1983	Reactor Shutdown

II. EFFLUENT AND WASTE DISPOSAL SUMMARY

EFFLUENT AND WASTE DISPOSAL SUMMARY

A. Gaseous Effluents

During the reporting period, July 1, 1983 through December 31, 1983, a total of 0.00 curies of fission and activation gases, 0.00 curies of non-particulate halogens (iodines) with half-lives greater than eight days, 1.27 E-3 curies of particulates with half-lives greater than eight days, and 1.62 curies of tritium were released. The maximum hourly release rate of gross activity from the stack was 0.00 microcuries per second due to the reactor being shutdown during the entire period. The airborne releases are summarized in Tables 1A through 1C.

B. Liquid Effluents

A total of 6.60 E6 liters of water was processed through the radwaste system. Of this, 3.88 E5 liters containing 1.62 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 6.35 E-9 microcuries per milliliter on September 3, 1983. The liquid releases are summarized in Tables 2A and 2B.

C. Solid

During the reporting period, a total volume of 5.04 E2 cubic meters of solid waste containing 2.92 E2 curies of radioactivity was shipped off site in 37 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 is 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 - General Public Utilities Nuclear Corporation

1. Regulatory Limits

a. Fission and Activation Gases:

Technical Specification 3.6.A.1

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

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. Third Quarter - Shutdown

2. Fourth Quarter - Shutdown

b. Iodines and Particulates:

1. Third Quarter - 4.21 E-8 uCi/cc

2. Second Quarter - 4.21 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

3. Average Energy

a. Third Quarter - Shutdown

b. Fourth Quarter - Shutdown

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 upwardly 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. Upwardly conservative techniques are used in all phases of this process to assure that the amount of radioactive material in solid wastes are not underestimated.

5. Batch Releases

a. Liquid

1. Number of batch releases:

a. Third Quarter - 5 releases

b. Fourth Quarter - 0 releases

2. Total time period for batch releases:

a. Third Quarter - 7.05 E2 minutes

b. Fourth Quarter - 0.00 minutes

3. Maximum time period for a batch release:

a. Third Quarter - 1.75 E2 minutes

b. Fourth Quarter - 0.00 minutes

4. Average time period for a batch release:

a. Third Quarter - 1.41 E2 minutes

b. Fourth Quarter - 0.00 minutes

5. Minimum time period for a batch release:

a. Third Quarter - 1.05 E2 minutes

b. Fourth Quarter - 0.00 minutes

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

a. Third Quarter - 1.97 E6 liters/minute

b. Fourth Quarter - - 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 1983-2
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	Third Quarter	Fourth Quarter	Est. Total Error %
A. Fission & activation gases				
1. Total release	Ci	*	*	-
2. Average release rate for period	uCi/sec	-	-	
3. Percent of Tech Spec limit	%	-	-	
B. Iodines				
1. Total Iodine-131	Ci	< LLD	< LLD	2.5 E1
2. Average release rate for period	uCi/sec	-	-	
3. Percent of Tech Spec limit	%	3.65 E-3**	3.55 E-4**	
C. Particulates				
1. Particulates with half-lives > 8 days	Ci	1.16 E-3	1.13 E-4	2.5 E1
2. Average release rate for period	uCi/sec	1.46 E-4	1.42 E-5	
3. Percent of Tech Spec limit	%	3.65 E-3**	3.55 E-4**	
4. Gross alpha radioactivity	Ci	8.03 E-6	7.90 E-6	
D. Tritium				
1. Total release	Ci	3.74 E-1	1.25	4.0 E1
2. Average release rate for period	uCi/sec	4.70 E-2	1.57 E-1	

*Reactor Shutdown During This Period

**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 1983-2
GASEOUS EFFLUENTS-ELEVATED RELEASE

CONTINUOUS MODE

Nuclides Released	Unit	Third Quarter	Fourth Quarter		LLD uCi/cc
1. Fission gases					
Krypton-85m	Ci	*	*		2.62 E-8
Krypton-87	Ci	*	*		5.88 E-8
Krypton-88	Ci	*	*		8.55 E-8
Xenon-133	Ci	*	*		1.29 E-7
Xenon-135	Ci	*	*		2.53 E-8
Xenon-135m	Ci	*	*		2.50 E-8
Xenon-138	Ci	*	*		9.29 E-8
others					
Krypton-89	Ci	*	*		4.70 E-7
Xenon-133m	Ci	*	*		1.71 E-7
Xenon-137	Ci	*	*		2.55 E-7
Total for period	Ci	*	*		
2. Iodines					
Iodine-131	Ci	< LLD	< LLD		1.10 E-13
Iodine-133	Ci	< LLD	< LLD		1.09 E-13
Iodine-135	Ci	< LLD	< LLD		1.72 E-13
Total for period	Ci	< LLD	< LLD		

*Reactor Shutdown During This Period

TABLE 1B (Continued)
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1983-2
GASEOUS EFFLUENTS-ELEVATED RELEASE

Nuclides Released	Unit	Third Quarter	Fourth Quarter		LLD uCi/cc
3. PARTICULATES					
Strontium-89	Ci	< LLD	< LLD		1.19 E-15
Strontium-90	Ci	5.23 E-7	1.26 E-6		2.37 E-16
Cesium-134	Ci	< LLD	< LLD		6.84 E-14
Cesium-137	Ci	2.46 E-5	< LLD		8.75 E-14
Barium-140	Ci	< LLD	< LLD		2.41 E-13
Lanthanum-140	Ci	< LLD	< LLD		4.48 E-14
OTHERS					
Cobalt-60	Ci	1.13 E-3	1.12 E-4		1.58 E-13
NO OTHER NUCLIDES IDENTIFIED					
TOTAL FOR PERIOD	Ci	1.16 E-3	1.13 E-4		

TABLE 1C
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1983-2
GASEOUS EFFLUENTS-GROUND LEVEL RELEASE

Nuclides Released	Unit	Third Quarter	Fourth Quarter		LLD uCi/cc
1. Fission Gases					
TOTAL	Ci	*	*		
2. Iodines					
Iodine-131	Ci	*	*		2.29 E-14
Iodine-133	Ci	*	*		2.50 E-14
Iodine-135	Ci	*	*		1.27 E-13
TOTAL	Ci	*	*		
3. Particulates					
Strontium-89	Ci	*	*		7.12 E-16
Strontium-90	Ci	*	*		3.81 E-16
Cesium-134	Ci	*	*		2.57 E-14
Cesium-137	Ci	*	*		5.32 E-14
Barium-140	Ci	*	*		1.13 E-13
Lanthanum-140	Ci	*	*		1.91 E-14
NO OTHER NUCLIDES IDENTIFIED					
TOTAL FOR PERIOD	Ci	*	*		

*SYSTEM SHUTDOWN DURING THIS PERIOD

TABLE 2A
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1983-2
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	Third Quarter	Fourth Quarter	Est. Total Error %
A. Fission & activation products				
1. Total releases (not including tritium, gases, alpha)	Ci	8.13 E-4	*	3.0 E1
2. Average diluted concentration during period	uCi/ml	5.21 E-10	-	
3. Percent of applicable limit	%	1.04 E-3	-	
B. Tritium				
1. Total release	Ci	1.62	*	3.0 E1
2. Average diluted concentration during period	uCi/ml	1.04 E-6	-	
3. Percent of applicable limit	%	3.46 E-2	-	
C. Dissolved and entrained gases				
1. Total release	Ci	< 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	*	3.0 E1
E. Volume of waste released (prior to dilution)	liters	3.88 E5	*	1.0 E1
F. Volume of dilution water used during period	liters	5.87 E9	3.77 E9	1.0 E1

* NO RELEASES DURING THIS PERIOD

TABLE 2B
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1983-2
LIQUID EFFLUENTS

BATCH MODE

Nuclides Released	Unit	Third Quarter	Fourth Quarter		LLD uCi/ml
Strontium-89	Ci	< LLD	*		3.00 E-8
Strontium-90	Ci	< LLD	*		8.00 E-9
Cesium-134	Ci	< LLD	*		2.47 E-7
Cesium-137	Ci	< LLD	*		2.90 E-7
Iodine-131	Ci	< LLD	*		2.65 E-7
Cobalt-58	Ci	< LLD	*		3.27 E-7
Cobalt-60	Ci	8.13 E-4	*		3.37 E-7
Iron-59	Ci	< LLD	*		4.05 E-7
Zinc-65	Ci	< LLD	*		8.00 E-7
Manganese-54	Ci	< LLD	*		2.20 E-7
Chromium-51	Ci	< LLD	*		1.72 E-6
Zirconium-95	Ci	< LLD	*		4.72 E-7
Niobium-95	Ci	< LLD	*		3.08 E-7
Molybdenum-99	Ci	< LLD	*		2.47 E-6
Technetium-99m	Ci	< LLD	*		1.93 E-7
Barium-140	Ci	< LLD	*		8.99 E-7
Lanthanum-140	Ci	< LLD	*		1.20 E-7
Cerium-141	Ci	< LLD	*		3.02 E-7
NO OTHER NUCLIDES IDENTIFIED			*		
TOTAL FOR PERIOD	Ci	8.13 E-4			
Xenon-133	Ci	< LLD	*		4.10 E-7
Xenon-135	Ci	< LLD	*		1.75 E-7
NO OTHER NUCLIDES IDENTIFIED					
TOTAL FOR PERIOD	Ci	< LLD	*		

* NO RELEASES DURING THIS PERIOD

TABLE 3
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1983-2
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	9.00 E1	
	Ci	2.09 E2	5.0 E1
b. Dry compressible waste, contaminated equip., etc.	m^3	4.14 E2	
	Ci	8.25 E1	5.0 E1
c. Irradiated components, control rods, etc.	m^3		
	Ci	None	-
d. Other (describe)	m^3		
	Ci	None	-

2. Estimate of major nuclide composition (by type of waste)	Percentage	Activity (Ci)	LLD (uCi/cc)
a. Cobalt-60	8.27 E1	1.73 E2	3.82 E-5
Cesium-137	6.50	1.36 E1	2.21 E-5
Strontium-90	5.34	1.12 E1	6.20 E-6
Manganese-54	4.46	9.32	1.95 E-5
Cesium-134	5.67 E-1	1.19	1.24 E-5
b. Cobalt-60	8.14 E1	6.72 E1	
Cesium-137	9.86	8.14	
Manganese-54	7.49	6.18	
Cesium-134	6.58 E-1	5.43 E-1	
Strontium-89	2.36 E-1	1.95 E-1	
c.			
d.			

3. Solid Waste Disposition		
Number of Shipments	Mode of Transportation	Destination
30	Motor Vehicle	Barnwell, SC
7	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). 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' 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. 95% is the average data recovery for the six month period from July through December of 1983 (Table 9). Meteorological data are an integral part of the off-site dose assessment program. Occasionally - lower percentages of data recovery, as in the months of September and November, are the result of sensor, computer hardware, and/or chart recorder malfunctions.

Data Analysis

Tables 5 through 8 are the joint frequency distribution tables for the various stability classes as described in USNRC Regulatory Guide 1.21. These atmospheric stability classes are defined in Table 4. Joint frequency tables are represented in Figures 2 and 3 as cumulative semi-annual wind roses. Figures 2 and 3 represent wind roses at the 33-foot and 380-foot levels, respectively.

For the first quarter of the period (July through September) the predominant wind direction is from the southwest. This is primarily due to the normal climatological prevailing winds and little influence by the

jet stream which had retreated into Canada during late spring. With such a large data source many smaller scale meteorological phenomena are not likely to appear. However the first quarter wind rose at 33 feet does show a relative maximum frequency of southerly wind component. This wind flow which is parallel to the coast is the end result of the uneven heating between the land and water, more commonly referred to as a sea breeze. The common daytime summer sea breeze induces high atmospheric stability and thereby suppresses major effluent plume dispersion. This thermally-induced phenomenon disappears at night and ushers the return of normal climatologically prevailing winds. Another small maximum from the northeast is due to the air flow around large high pressure systems. Strangely enough, although a high pressure system is indicative of fair weather, this northeast flow will produce large stability, low clouds and drizzle.

For the second quarter (October through December) the transition from summer to winter is quite evident. The predominant winds begin to veer to the west-southwest, west and west-northwest. In the fall and winter the mid-latitude climatological wind is from the west and northwest as the jet stream makes its way southward. The jet stream is the east-west dividing line between southwesterly flow to the south and northwesterly flow to the north. The jet stream is also known as a "breeding ground" for extratropical cyclones.

Precipitaton for the period was above normal (23.11 inches). The normal 6-month rainfall from July through December is 22.01 inches. Figure 4 shows that most of the precipitation fell in November and

December. Even though the six-month rainfall was not well above normal, it was a period marked by extremes. The first quarter precipitation was well below normal especially through August. It was well above normal during November and December. Rainfall events were primarily due to extratropical storms of light to moderate intensity and long duration or violent convective uplift in the form of showers and thunderstorms. This condition is characteristic of heavy rainfall intensity of relatively short duration. Generally, the heavier the intensity (convective showers) the greater the particulate fallout (washout) from the atmosphere, which has implications for radionuclide deposition. Such convective showers are characteristic of late spring and summer weather patterns. Suppression of these summer precipitation events so close to the ocean is accomplished by the previously mentioned sea breeze effect. It is common for the showers to build up to the west, move east-northeast, but become stagnant and eventually decay up to 12 miles inland due to the highly stable sea breeze.

FIGURE 1
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION

METEOROLOGICAL DATA:
SCHEMATIC DIAGRAM
OF
SYSTEM COMPONENTS AND INFORMATION FLOW

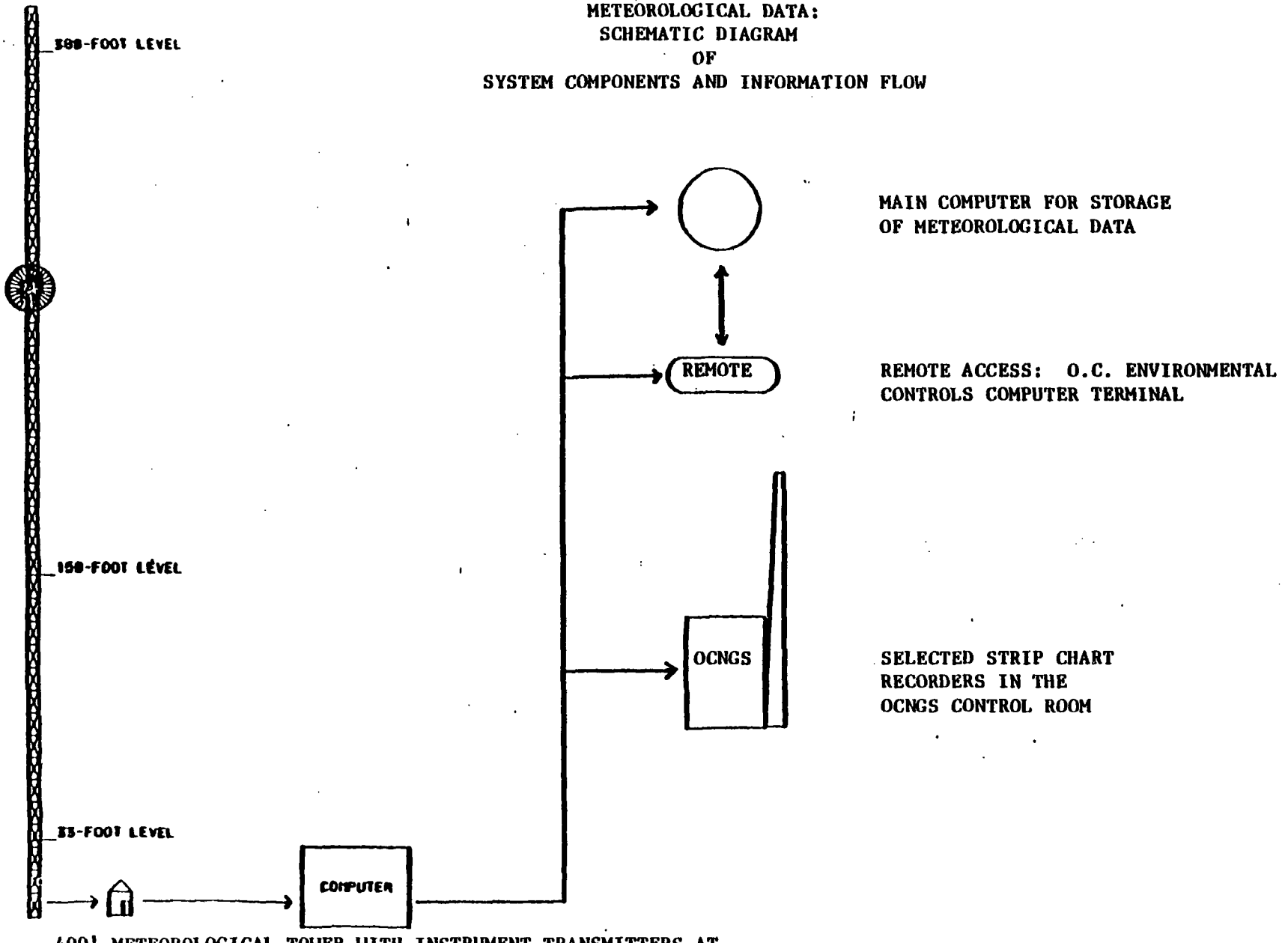


TABLE 4

METEOROLOGICAL CLASSIFICATION OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	$\sigma\theta$[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 7/1/83 - 9/30/83

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 8307010I-83093024
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	16	2	0	0	0	21
NNE	0	14	7	0	0	0	21
NE	1	0	23	3	0	0	36
ENE	1	14	20	0	0	0	35
E	0	22	14	0	0	0	36
ESE	0	22	26	0	0	0	48
SE	0	11	41	0	0	0	52
SSE	0	11	48	4	0	0	65
S	1	3	34	33	0	0	71
SSW	1	4	10	4	0	0	19
SW	1	25	12	0	0	0	38
WSW	1	16	22	0	0	0	39
W	0	20	18	1	0	0	47
WNW	0	20	25	1	0	0	54
NW	0	14	14	7	0	0	35
NNW	0	25	7	0	0	0	32
TOTAL	9	262	315	53	0	0	630

PERIODS OF CALM(HOURS): 14
VARIABLE DIRECTION 3
HOURS OF MISSING DATA: 112

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 8307010I-83093024
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	0	1	1	0	0	0	2
NE	0	0	11	1	0	0	12
ENE	2	4	0	0	0	0	6
E	2	0	0	0	0	0	2
ESE	0	5	1	0	0	0	6
SE	0	1	4	0	0	0	5
SSE	0	6	4	1	0	0	11
S	1	2	0	2	0	0	13
SSW	1	2	3	1	0	0	7
SW	1	2	1	0	0	0	4
WSW	0	3	1	0	0	0	4
W	0	3	0	0	0	0	3
WNW	0	4	2	0	0	0	6
NW	0	3	2	0	0	0	5
NNW	1	7	1	0	0	0	9
TOTAL	10	47	30	5	0	0	101

PERIODS OF CALM(HOURS): 14
VARIABLE DIRECTION 2
HOURS OF MISSING DATA: 112

Table 5 - continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03070101-03093024
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	1	0	0	0	0	0	0
NNE	1	1	0	0	0	0	2
NE	0	1	4	0	0	0	5
ENE	0	1	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	1	2	0	0	0	3
SE	0	2	0	0	0	0	2
SSE	0	7	1	0	0	0	8
S	1	4	2	1	0	0	8
SSW	0	4	0	0	0	0	4
SW	0	0	2	0	0	0	2
WSW	0	1	1	0	0	0	2
W	0	1	0	0	0	0	1
WNW	1	1	0	0	0	0	2
NW	1	1	1	0	0	0	3
NNW	2	1	0	0	0	0	3
TOTAL	7	31	13	1	0	0	52

PERIODS OF CALM(HOURS): 14
VARIABLE DIRECTION 4
HOURS OF MISSING DATA: 112

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03070101-03093024
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	1	12	2	0	0	0	15
NNE	3	15	9	0	0	0	27
NE	1	7	11	3	0	0	22
ENE	0	5	0	0	0	0	5
E	0	2	1	0	0	0	3
ESE	0	4	2	0	0	0	6
SE	2	10	3	0	0	0	15
SSE	2	10	1	1	0	0	14
S	4	26	16	4	0	0	50
SSW	3	20	23	2	0	0	57
SW	1	10	9	0	0	0	20
WSW	7	11	4	0	0	0	22
W	6	7	3	0	0	0	16
WNW	2	5	6	0	0	0	13
NW	0	7	10	0	0	0	17
NNW	1	12	1	0	0	0	14
TOTAL	33	181	101	10	0	0	325

PERIODS OF CALM(HOURS): 14
VARIABLE DIRECTION 3
HOURS OF MISSING DATA: 112

Table 5 - continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 03070101-03083024
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	4	10	1	0	0	0	15
NNE	6	7	3	0	0	0	16
NE	2	6	0	0	0	0	16
ENE	4	2	0	0	0	0	6
E	2	4	0	0	0	0	6
ESE	0	2	0	0	0	0	2
SE	1	4	1	0	0	0	6
SSE	6	8	0	0	0	0	14
S	10	21	7	0	0	0	38
SSW	9	39	16	0	0	0	64
SW	5	70	6	0	0	0	81
WSW	12	30	4	0	0	0	46
W	10	17	0	0	0	0	27
WNW	1	9	2	0	0	0	12
NW	7	10	2	0	0	0	19
NNW	4	18	1	0	0	0	23
TOTAL	83	257	51	0	0	0	391

PERIODS OF CALM(HOURS): 14
VARIABLE DIRECTION 10
HOURS OF MISSING DATA: 112

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION

PERIOD OF RECORD = 03070101-03083024
STABILITY CLASS: F D1/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	5	1	0	0	0	0	6
NNE	3	1	0	0	0	0	4
NE	1	0	0	0	0	0	1
ENE	1	0	0	0	0	0	1
E	2	0	0	0	0	0	2
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	1	1	0	0	0	0	2
S	4	6	0	0	0	0	10
SSW	7	9	0	0	0	0	16
SW	9	21	0	0	0	0	30
WSW	14	44	0	0	0	0	58
W	12	2	0	0	0	0	14
WNW	4	10	0	0	0	0	14
NW	11	16	0	0	0	0	27
NNW	7	6	0	0	0	0	13
TOTAL	81	117	0	0	0	0	198

PERIODS OF CALM(HOURS): 14
VARIABLE DIRECTION 10
HOURS OF MISSING DATA: 112

Table 5 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03070101-03093024
STABILITY CLASS: G 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	0	0	0	0	6
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	1	0	0	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	1	0	0	0	0	0	1
S	6	0	0	0	0	0	6
SSW	3	2	0	0	0	0	5
SW	16	8	0	0	0	0	24
WSW	42	72	0	0	0	0	114
W	61	33	0	0	0	0	94
WNW	30	28	0	0	0	0	58
NW	32	18	0	0	0	0	50
NNW	8	23	0	0	0	0	31
TOTAL	212	178	0	0	0	0	398

PERIODS OF CALM(HOURS): 14
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 112

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03070101-03093024
STABILITY CLASS: ALL 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	20	50	5	0	0	0	75
NNE	13	30	28	0	0	0	72
NE	5	23	57	7	0	0	92
ENE	0	26	28	0	0	0	54
E	7	20	15	0	0	0	58
ESE	0	34	31	0	0	0	65
SE	3	28	49	0	0	0	80
SSE	10	43	46	6	0	0	105
S	26	62	67	48	0	0	195
SSW	24	80	52	7	0	0	172
SW	33	145	30	0	0	0	208
WSW	76	177	32	0	0	0	285
W	80	91	21	1	0	0	202
WNW	47	77	35	1	0	0	160
NW	51	69	20	7	0	0	156
NNW	23	82	18	0	0	0	125
TOTAL	435	1073	510	69	0	0	2086

PERIODS OF CALM(HOURS): 14
VARIABLE DIRECTION 48
HOURS OF MISSING DATA: 112

TABLE 6

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and Wind Direction 33ft versus Delta Temperature 150-33ft for the Period 10/1/83 - 12/31/83

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 83100101-83123124
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	11	7	1	0	0	22
NNE	0	4	7	1	0	0	12
NE	0	9	12	0	0	0	21
ENE	0	5	6	0	0	0	11
E	0	4	2	6	0	0	12
ESE	0	11	3	2	1	0	17
SE	1	5	6	0	0	0	12
SSE	0	3	6	1	0	0	10
S	0	3	11	3	0	0	17
SSW	0	3	3	0	0	0	6
SW	0	5	2	4	0	0	11
WSW	0	13	10	6	0	0	29
W	1	16	32	11	3	0	63
WNW	0	10	36	13	0	0	59
NW	0	18	25	2	0	0	37
NNW	2	0	13	2	0	0	26
TOTAL	7	121	181	52	4	0	365

PERIODS OF CALM(HOURS): 10
VARIABLE DIRECTION 4
HOURS OF MISSING DATA: 103

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 83100101-83123124
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	2	0	1	0	0	3
NNE	0	3	7	0	0	0	10
NE	0	0	2	0	0	0	2
ENE	0	1	0	0	0	0	0
E	1	2	0	4	0	0	7
ESE	1	0	0	1	0	0	2
SE	0	0	0	0	0	0	0
SSE	0	2	3	1	0	0	6
S	0	1	3	1	0	0	5
SSW	0	1	1	0	0	0	2
SW	0	3	0	1	0	0	4
WSW	0	4	1	2	0	0	7
W	1	4	0	5	0	0	10
WNW	0	5	0	5	1	0	10
NW	0	1	0	1	0	0	2
NNW	1	5	0	1	0	0	7
TOTAL	4	34	42	23	1	0	104

PERIODS OF CALM(HOURS): 10
VARIABLE DIRECTION 1
HOURS OF MISSING DATA: 103

Table 6 - continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 0318@0101-03123124
STABILITY CLASS C D1/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	2	0	0	0	0	2
NNE	0	3	0	0	0	0	3
NE	1	1	2	0	0	0	4
ENE	0	0	4	0	0	0	4
E	0	0	2	0	0	0	2
ESE	0	0	0	3	0	0	3
SE	0	1	0	0	0	0	1
SSE	0	2	2	0	0	0	4
S	0	1	1	1	0	0	3
SSW	0	0	1	0	0	0	1
SW	0	1	1	0	0	0	2
WSW	2	1	3	0	0	0	6
W	1	4	6	1	0	0	11
WNW	0	1	1	3	1	0	6
NW	0	2	2	1	0	0	5
NNW	1	0	1	0	0	0	2
TOTAL	5	19	25	9	1	0	59

PERIODS OF CALM(HOURS): 18
VARIABLE DIRECTION 2
HOURS OF MISSING DATA: 183

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 0318@0101-03123124
STABILITY CLASS D D1/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	5	15	4	0	0	0	24
NNE	1	25	9	0	0	0	35
NE	1	15	28	2	0	0	47
ENE	0	9	28	10	0	0	47
E	1	7	17	12	1	0	38
ESE	0	5	15	14	0	0	34
SE	4	9	13	3	0	0	29
SSE	1	15	27	8	0	1	52
S	1	16	16	6	0	0	39
SSW	1	29	12	7	1	0	41
SW	2	9	6	2	0	0	19
WSW	2	10	17	0	1	0	30
W	5	12	10	11	0	0	47
WNW	0	21	27	14	0	0	78
NW	0	27	16	2	0	0	53
NNW	3	11	20	0	0	0	34
TOTAL	43	235	275	91	3	1	648

PERIODS OF CALM(HOURS): 18
VARIABLE DIRECTION 3
HOURS OF MISSING DATA: 183

Table 6 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03100101-03123124
STABILITY CLASS E DT/DZ
ELEVATION: SPEED.SPD33A DIRECTION.DIR33A LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	2	6	0	0	0	0	8
NNE	1	6	9	0	0	0	16
NE	4	13	6	0	0	0	23
ENE	0	4	18	0	0	0	22
E	1	6	6	0	0	0	13
ESE	2	6	1	0	0	0	9
SE	3	2	0	0	0	0	5
SSE	2	5	1	1	1	0	10
S	5	4	3	0	0	0	12
SSW	4	17	3	1	0	0	25
SW	6	36	21	4	2	0	69
WSW	3	42	23	4	0	0	72
W	4	21	13	3	0	0	41
WNW	7	20	1	2	0	0	30
NW	2	15	2	0	0	0	19
NNW	0	10	4	0	0	0	22
TOTAL	54	221	111	15	3	0	484

PERIODS OF CALM(HOURS): 10
VARIABLE DIRECTION 6
HOURS OF MISSING DATA: 103

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03100101-03123124
STABILITY CLASS F DT/DZ
ELEVATION: SPEED.SPD33A DIRECTION.DIR33A LAPSE:DT150

WIND SPEED(MPH)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	6	1	0	0	0	0	7
NNE	0	0	0	0	0	0	0
NE	3	0	0	0	0	0	3
ENE	0	0	0	0	0	0	0
E	1	0	0	0	0	0	1
ESE	2	2	0	0	0	0	4
SE	1	0	0	0	0	0	1
SSE	1	0	0	0	0	0	1
S	0	2	0	0	0	0	2
SSW	2	4	0	0	0	0	6
SW	0	31	2	0	0	0	41
WSW	11	32	0	0	0	0	43
W	5	21	0	0	0	0	26
WNW	3	8	0	0	0	0	11
NW	4	6	0	0	0	0	10
NNW	5	9	0	0	0	0	14
TOTAL	52	116	2	0	0	0	170

PERIODS OF CALM(HOURS): 10
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 103

Table 6 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03100101-03123124
STABILITY CLASS: G 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	5	3	0	0	0	0	8
NNE	2	0	0	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	2	1	0	0	0	0	3
E	4	0	0	0	0	0	4
ESE	1	1	0	0	0	0	2
SE	1	0	0	0	0	0	1
SSE	2	0	0	0	0	0	2
S	6	0	0	0	0	0	6
SSW	7	3	0	0	0	0	10
SW	10	12	0	0	0	0	31
WSW	36	58	0	0	0	0	94
W	33	19	0	0	0	0	52
WNW	30	16	0	0	0	0	55
NW	36	28	0	0	0	0	64
NNW	10	11	0	0	0	0	21
TOTAL	203	152	0	0	0	0	355

PERIODS OF CALM(HOURS): 10
VARIABLE DIRECTION 16
HOURS OF MISSING DATA: 103

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03100101-03123124
STABILITY CLASS: ALL 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	21	40	11	2	0	0	74
NNE	4	41	32	1	0	0	78
NE	9	38	51	2	0	0	100
ENE	2	28	64	10	0	0	96
E	8	10	27	22	1	0	77
ESE	6	25	10	28	1	0	71
SE	10	17	10	3	0	0	40
SSE	6	27	30	11	1	1	85
S	12	27	34	11	0	0	84
SSW	14	48	28	0	1	0	91
SW	35	87	32	11	2	0	177
WSW	54	160	54	12	1	0	208
W	50	87	70	31	3	0	250
WNW	57	89	73	37	2	0	258
NW	50	80	45	6	0	0	100
NNW	30	55	38	3	0	0	126
TOTAL	368	898	636	190	12	1	2105

PERIODS OF CALM(HOURS): 10
VARIABLE DIRECTION 41
HOURS OF MISSING DATA: 103

TABLE 7

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and Wind Direction 380ft versus Delta Temperature 380-33ft for the Period 7/1/83 - 9/30/83

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 8307010I-83093024
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	1	7	2	0	10
ENE	0	0	2	7	0	0	9
E	0	0	3	0	0	0	3
ESE	0	0	2	0	0	0	2
SE	0	0	1	0	0	0	1
SSE	0	0	1	1	0	0	2
S	0	0	0	6	2	0	8
SSW	0	0	1	0	0	0	1
SW	0	0	2	1	0	0	3
WSW	0	0	0	2	0	0	2
W	0	0	3	12	2	1	18
WNW	0	0	1	10	1	0	12
NW	0	0	4	3	1	3	11
NNW	0	0	1	1	1	0	3
TOTAL	0	0	22	50	9	4	85

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 110

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 8307010I-83093024
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	2	1	0	0	3
NNE	0	0	0	2	0	0	2
NE	0	1	1	2	2	0	6
ENE	0	0	6	7	0	0	12
E	0	0	5	3	0	0	8
ESE	0	1	8	1	0	0	10
SE	0	0	12	4	0	0	16
SSE	0	0	3	8	0	0	11
S	0	0	2	16	5	1	24
SSW	0	0	1	3	5	0	9
SW	0	0	3	2	0	0	5
WSW	0	1	10	3	0	0	14
W	0	0	7	3	1	0	11
WNW	0	1	0	3	2	0	14
NW	0	3	6	1	1	2	13
NNW	0	0	3	1	0	0	4
TOTAL	0	7	76	60	16	3	162

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 110

Table 7 - Continued

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03070101-03093024
STABILITY CLASS: C D1/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	2	4	0	0	0	6
NNE	0	2	5	3	0	0	10
NE	0	1	2	2	1	2	8
ENE	0	1	5	3	0	0	9
E	0	1	12	0	0	0	13
ESE	0	6	8	2	0	0	16
SE	0	2	12	1	0	0	15
SSE	0	1	10	0	0	0	10
S	0	0	2	11	3	0	16
SSW	0	1	2	2	2	0	7
SW	0	6	6	4	0	0	16
WSW	0	3	3	3	0	0	9
W	0	4	5	4	1	0	14
WNW	0	0	0	4	2	1	15
NW	0	3	10	2	2	1	18
NNW	0	2	6	2	0	0	10
TOTAL	0	35	100	51	11	4	201

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 0
HOURS OF MISSING DATA. 110

'T OVER, (EX) TO EXIT

SITE OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03070101-03093024
STABILITY CLASS: D D1/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	1	8	8	14	1	0	27
NNE	0	3	15	22	1	2	41
NE	1	4	10	10	10	22	57
ENE	0	4	0	6	0	0	10
E	0	0	0	0	0	0	16
ESE	1	15	13	4	1	0	34
SE	0	7	10	15	1	0	33
SSE	0	11	25	0	3	0	48
S	2	7	25	25	14	4	77
SSW	1	3	14	20	15	1	63
SW	2	7	12	13	4	0	38
WSW	0	4	10	14	2	0	30
W	0	1	11	8	1	0	21
WNW	1	6	5	10	5	1	28
NW	0	0	7	13	12	2	42
NNW	0	2	0	6	1	0	16
TOTAL	9	96	185	197	71	32	509

PERIODS OF CALM(HOURS) 1
VARIABLE DIRECTION 6
HOURS OF MISSING DATA. 110

Table 7 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03070101-03093024
STABILITY CLASS: E 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	1	3	8	11	0	1	24
NNE	0	0	7	0	1	0	25
NE	0	2	4	6	6	4	22
ENE	0	3	2	2	0	0	7
E	3	1	4	1	0	0	9
ESE	2	2	1	0	0	0	5
SE	0	2	4	3	0	0	9
SSE	2	1	0	7	0	0	10
S	1	1	14	20	3	0	39
SSW	0	3	6	43	35	1	88
SW	1	1	11	16	36	2	67
WSW	0	2	4	0	13	4	32
W	2	2	5	11	3	1	24
WNW	0	3	5	0	6	2	24
NW	0	5	2	6	6	5	24
NNW	0	4	0	0	7	1	20
TOTAL	12	44	93	168	116	21	446

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 24
HOURS OF MISSING DATA: 110

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03070101-03093024
STABILITY CLASS: F 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	1	2	4	4	3	0	14
NNE	1	2	4	7	1	0	15
NE	1	3	1	0	0	0	13
ENE	0	3	1	0	0	0	4
E	0	0	0	0	0	0	0
ESE	1	0	0	0	0	0	1
SE	0	1	0	0	0	0	1
SSE	0	4	2	0	0	0	6
S	2	1	5	0	0	0	16
SSW	2	0	11	13	3	0	20
SW	0	1	5	0	17	28	52
WSW	0	1	7	13	14	24	59
W	1	1	5	11	15	0	33
WNW	1	4	1	11	4	2	23
NW	0	2	1	0	4	6	22
NNW	2	2	5	5	24	5	43
TOTAL	12	27	52	98	85	57	331

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 18
HOURS OF MISSING DATA: 110

Table 7 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03070101-03093024
STABILITY CLASS: G 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	1	3	16	7	10	1	38
NNE	0	5	5	11	2	0	23
NE	0	2	0	3	1	0	6
ENE	0	2	0	0	0	0	2
E	0	0	0	1	0	0	1
ESE	0	0	4	1	0	0	5
SE	1	0	0	0	0	0	1
SSE	1	2	1	0	0	0	4
S	0	2	1	0	0	0	3
SSW	1	3	3	3	0	0	10
SW	0	4	11	6	1	0	22
WSW	1	4	0	12	5	2	32
W	0	7	7	15	10	2	41
WNW	2	3	6	11	7	4	33
NW	0	5	0	0	10	1	32
NNW	1	3	0	0	0	1	30
TOTAL	8	45	78	86	55	11	283

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 16
HOURS OF MISSING DATA: 110

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03070101-03093024
STABILITY CLASS: ALL 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	4	16	30	37	14	2	112
NNE	1	21	54	63	6	2	116
NE	2	13	10	30	22	28	122
ENE	0	13	24	25	0	0	62
E	3	10	32	5	0	0	50
ESE	4	24	36	0	1	0	75
SE	1	12	30	23	1	0	76
SSE	3	10	50	33	3	0	100
S	5	11	40	86	27	5	183
SSW	4	10	30	93	60	2	207
SW	3	10	50	81	50	22	203
WSW	1	15	42	86	34	30	170
W	3	15	43	64	33	4	162
WNW	4	17	34	57	27	10	149
NW	0	26	30	42	36	28	162
NNW	3	13	30	31	42	7	135
TOTAL	41	254	606	782	363	152	2000

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 81
HOURS OF MISSING DATA: 110

TABLE 8

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and Wind Direction 380ft versus Delta Temperature 380-33ft for the Period 10/1/83 - 12/31/83

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 83100101-83123124
STABILITY CLASS: A DT/DZ
ELEVATION SPEED:SP380A DIRECTION:DR380A LAPSE:DT380A

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	0	0	0	0
NNE	0	0	0	1	0	0	1
NE	0	0	0	1	0	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	1	1
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	1	0	0	1
WNW	0	0	0	1	4	0	5
NW	0	0	0	1	3	1	5
NNW	0	0	0	0	0	0	0
TOTAL	0	0	0	5	7	2	14

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 106

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 83100101-83123124
STABILITY CLASS: B DT/DZ
ELEVATION SPEED:SP380A DIRECTION:DR380A LAPSE:DT380A

WIND DIRECTION	WIND SPEED(MPH) 1-3	4-7	8-12	13-18	19-24	>24	TOTAL
N	0	0	0	1	0	0	1
NNE	0	0	2	0	0	0	2
NE	0	0	2	2	0	0	4
ENE	0	0	4	0	0	0	4
E	0	0	2	0	0	0	2
ESE	0	1	0	0	0	0	1
SE	0	0	1	0	0	0	1
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	1	0	0	1
SW	0	0	0	1	0	0	1
WSW	0	0	0	0	0	0	0
W	0	0	1	7	0	1	9
WNW	0	0	2	13	6	3	24
NW	0	0	3	0	7	1	10
NNW	0	0	1	3	2	1	7
TOTAL	0	1	10	38	15	6	76

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 106

Table 8 - Continued

SITE. OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03100101-03123124
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	4	3	0	0	7
NNE	0	0	3	0	0	0	3
NE	0	0	2	2	5	1	0
ENE	0	1	1	0	0	0	2
E	0	1	1	0	0	0	2
ESE	0	3	1	0	0	1	5
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	2	1	0	0	3
SSW	0	1	1	0	0	0	2
SW	0	0	1	1	0	3	5
WSW	0	2	1	3	3	2	11
W	0	0	0	6	5	5	24
WNW	0	2	4	5	7	5	23
NW	0	0	4	1	4	1	10
NNW	0	2	5	0	1	1	0
TOTAL	0	12	46	22	23	10	122

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 1
HOURS OF MISSING DATA: 186

SITE. OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03100101-03123124
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	0	1	11	16	4	1	33
NNE	0	1	11	18	1	0	32
NE	0	1	6	18	42	10	77
ENE	1	1	4	21	28	21	76
E	1	0	3	5	7	35	51
ESE	1	2	2	2	5	18	30
SE	0	2	3	2	13	3	23
SSE	0	2	15	7	16	0	40
S	0	3	15	28	10	7	64
SSW	0	1	10	15	11	6	51
SW	1	4	7	7	6	7	32
WSW	0	5	10	15	13	7	50
W	1	4	10	22	26	34	105
WNW	0	6	15	24	24	37	106
NW	0	2	0	27	15	0	62
NNW	1	1	6	12	10	1	30
TOTAL	6	36	162	232	240	285	880

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 3
HOURS OF MISSING DATA: 186

Table 8 - Continued

SITE: OYSTER CREEK 01/10/84 10.26

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 83100101-83123124
STABILITY CLASS: E 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	4	10	12	2	0	28
NNE	0	5	7	3	0	0	15
NE	1	0	6	4	5	0	15
ENE	0	0	0	5	13	1	19
E	0	0	1	2	7	18	28
ESE	1	0	7	6	2	14	30
SE	2	2	3	0	2	3	10
SSE	2	3	5	0	5	4	27
S	0	3	15	6	3	0	27
SSW	0	1	3	5	7	1	17
SW	0	1	4	10	12	7	42
WSW	1	1	2	14	41	20	79
W	0	3	10	6	18	5	42
WNW	1	1	7	20	18	4	52
NW	2	1	3	16	9	0	31
NNW	0	2	2	6	5	3	18
TOTAL	10	27	84	137	158	80	488

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 6
HOURS OF MISSING DATA: 186

SITE: OYSTER CREEK 01/10/84 10.27

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 83100101-83123124
STABILITY CLASS: F 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	1	1	9	11	0	22
NNE	1	0	2	3	1	0	7
NE	0	2	4	1	0	0	7
ENE	0	1	1	1	0	0	3
E	0	1	0	1	1	0	3
ESE	0	0	3	1	0	0	4
SE	0	1	2	1	0	0	4
SSE	0	0	2	3	0	0	6
S	0	1	1	1	0	0	3
SSW	0	1	5	0	1	2	17
SW	0	1	5	4	18	16	44
WSW	0	1	1	5	18	21	46
W	0	0	2	18	16	3	31
WNW	0	1	7	11	25	4	48
NW	0	1	5	11	11	0	28
NNW	0	0	4	6	11	0	21
TOTAL	1	12	45	76	113	46	293

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 0
HOURS OF MISSING DATA: 186

Table 8 - Continued

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03100101-03123124
STABILITY CLASS, G 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	2	3	3	13	1	22
NNE	0	3	1	1	0	0	5
NE	0	3	1	0	1	0	5
ENE	0	3	1	2	0	0	6
E	0	4	1	1	0	0	6
ESE	0	3	5	0	0	0	8
SE	0	1	3	0	0	0	4
SSE	0	4	0	6	2	0	12
S	1	4	1	2	0	0	8
SSW	1	0	7	0	0	0	16
SW	1	5	7	11	0	0	24
WSW	0	4	2	3	0	4	13
W	0	4	5	1	4	7	21
WNW	0	4	5	2	0	5	24
NW	0	1	5	10	0	0	24
NNW	0	2	1	5	11	3	22
TOTAL	3	55	48	47	47	28	228

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 12
HOURS OF MISSING DATA: 186

SITE: OYSTER CREEK

HOURS AT EACH WIND SPEED AND DIRECTION
PERIOD OF RECORD = 03100101-03123124
STABILITY CLASS, ALL 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	8	8	29	44	38	2	113
NNE	1	8	25	27	2	0	65
NE	1	6	20	20	61	11	117
ENE	1	6	11	20	41	22	110
E	1	6	0	0	18	64	93
ESE	2	9	10	0	7	33	78
SE	2	6	20	0	15	6	50
SSE	2	8	22	24	23	13	93
S	1	11	34	30	22	7	105
SSW	1	12	34	20	10	9	104
SW	2	11	24	42	36	33	148
WSW	1	13	25	48	75	54	208
W	1	11	44	53	60	55	233
WNW	1	14	48	76	83	58	282
NW	2	8	28	74	57	12	170
NNW	1	7	10	32	48	8	116
TOTAL	28	143	483	655	683	378	2182

PERIODS OF CALM(HOURS): 1
VARIABLE DIRECTION 31
HOURS OF MISSING DATA: 186

TABLE 9

METEOROLOGICAL DATA RECOVERY PERCENTAGE

FOR THE OYSTER CREEK NUCLEAR GENERATING STATION

METEOROLOGICAL TOWER

MONTH	33' RECOVERY (%)	380' RECOVERY (%)
JUL 83	96	97
AUG 83	96	96
SEP 83	93	92
OCT 83	95	95
NOV 83	94	93
DEC 83	97	97
SIX MONTH AVERAGE	95	95

FIGURE 2
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JULY 1983 - DECEMBER 1983 (33' LEVEL)

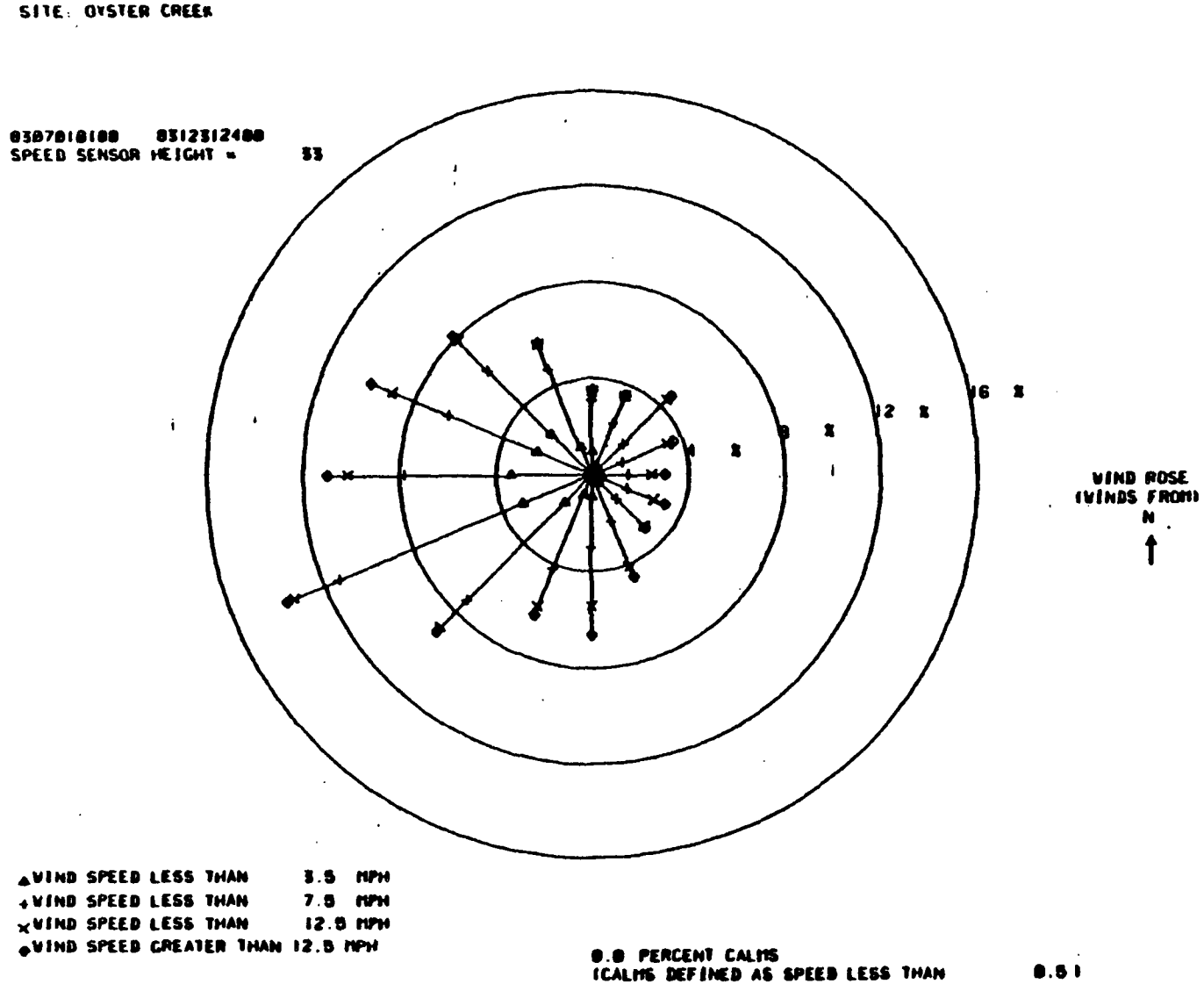


FIGURE 3
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JULY 1983 - DECEMBER 1983 (380' LEVEL)

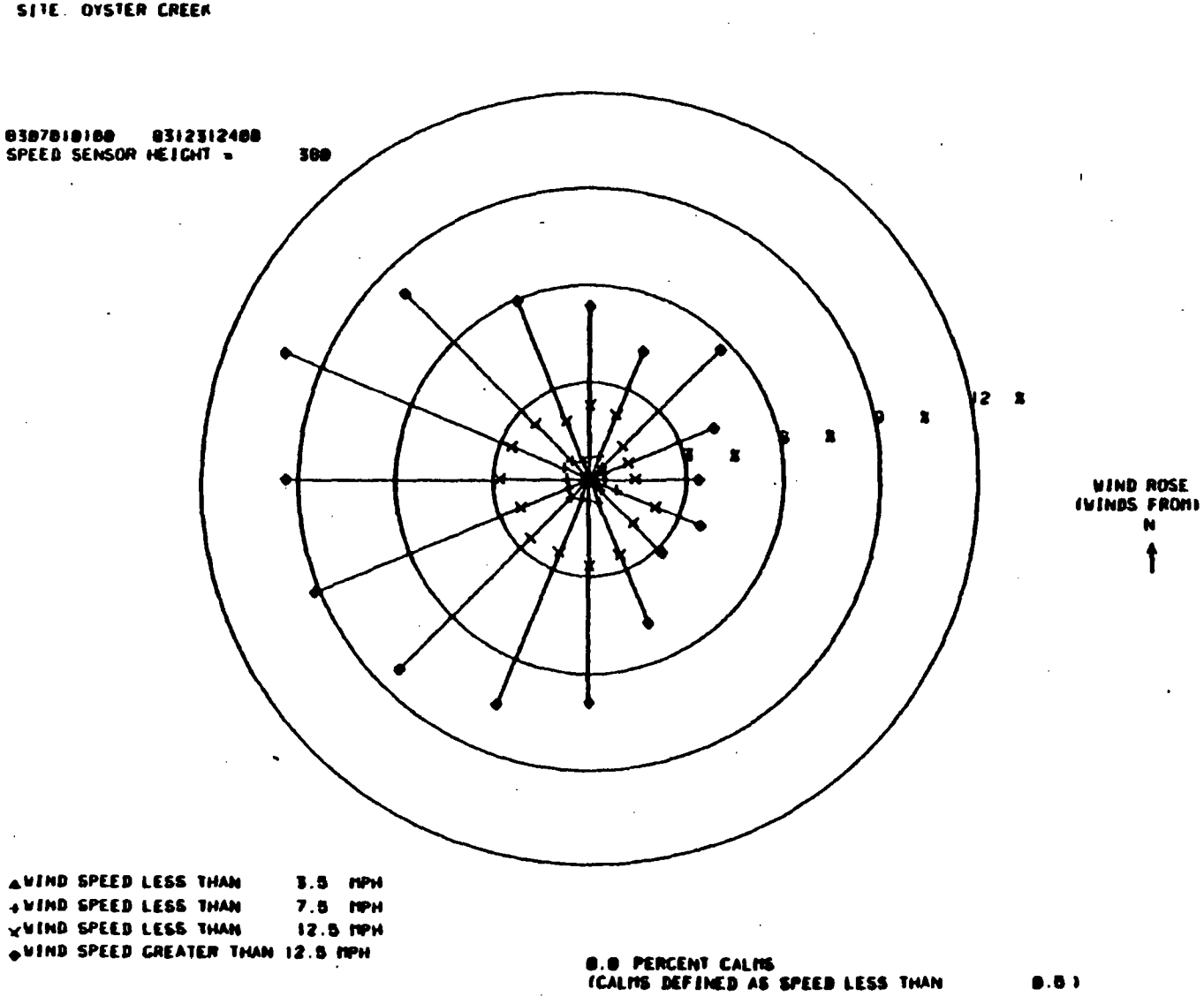
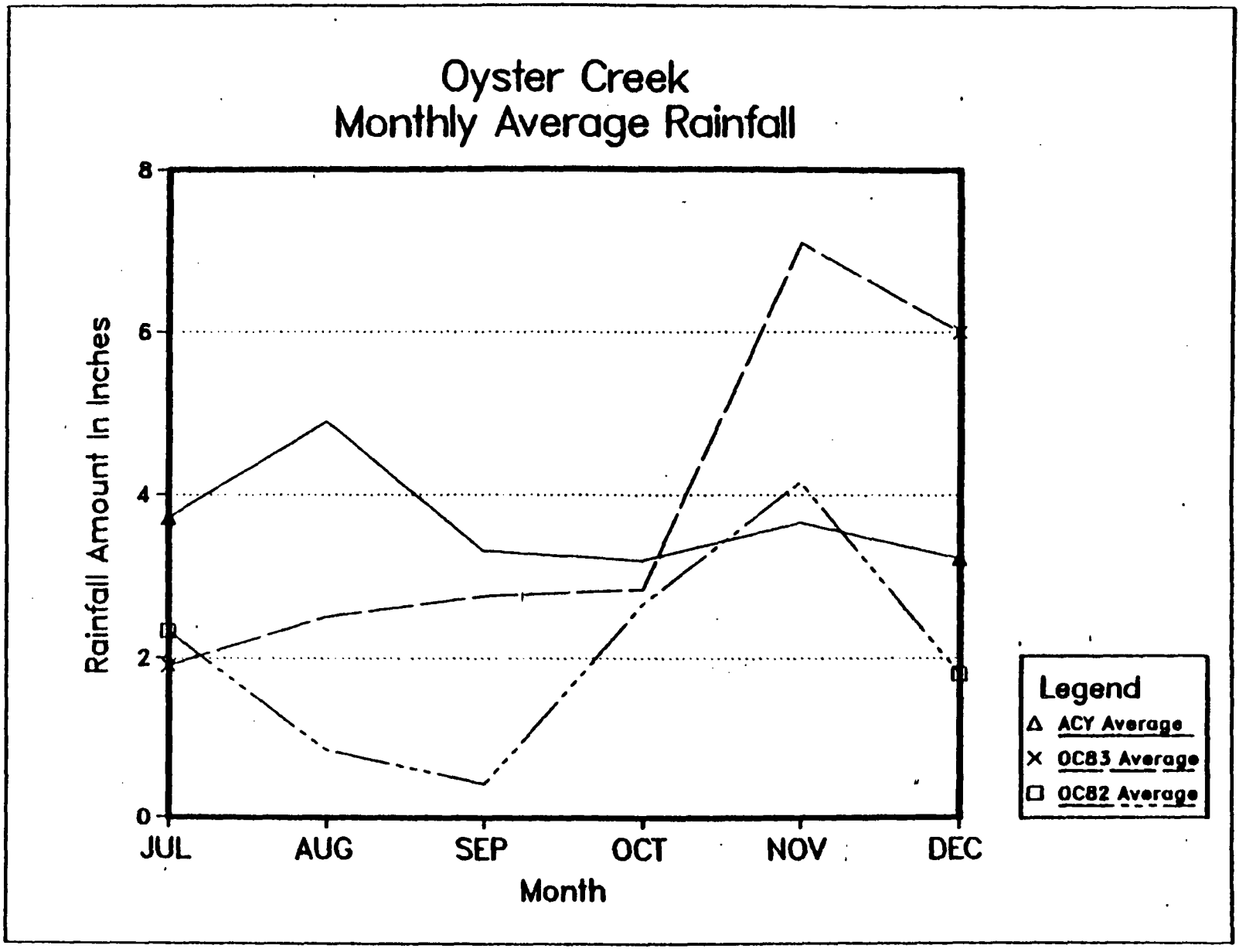


FIGURE 4


Oyster Creek
Monthly Average Rainfall
Rainfall Amount In Inches
8
6
4
2
0
JUL
AUG
SEP
OCT
NOV
DEC
Month
Legend
ACY Average
OC83 Average
OC82 Average

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 5 and 6.

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 radiation 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 through 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 overland 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.

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	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 #534, 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. - Route #9, East of Assembly of God Church	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, N.J. - Egg Harbor Road, at the Atlantic City Electric District Dispatcher	APT, AIO, RG, RWA

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

FIGURE 5

MAP OF REMP INDICATOR STATIONS

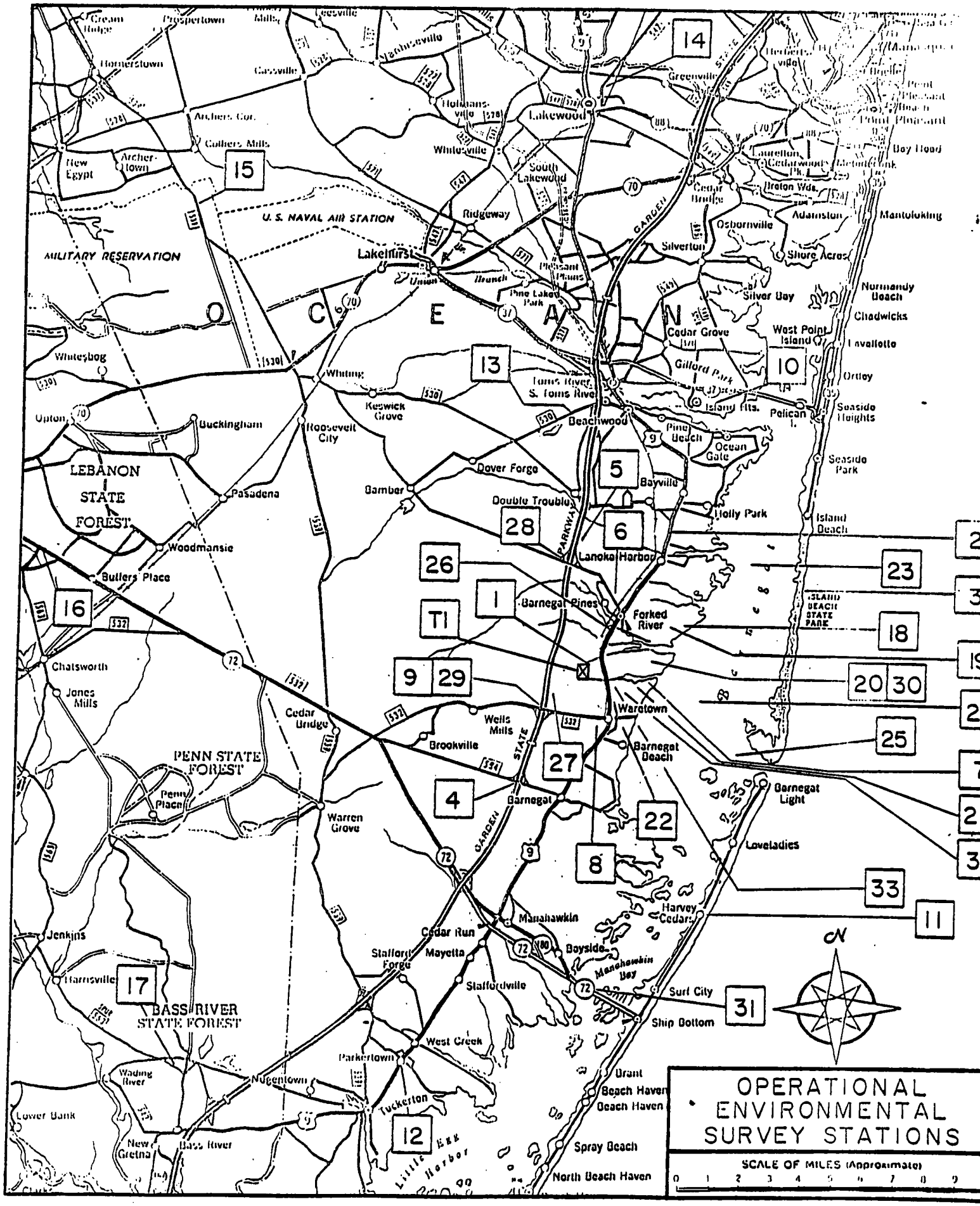


FIGURE 6

MAP OF REMP INDICATOR AND BACKGROUND STATIONS

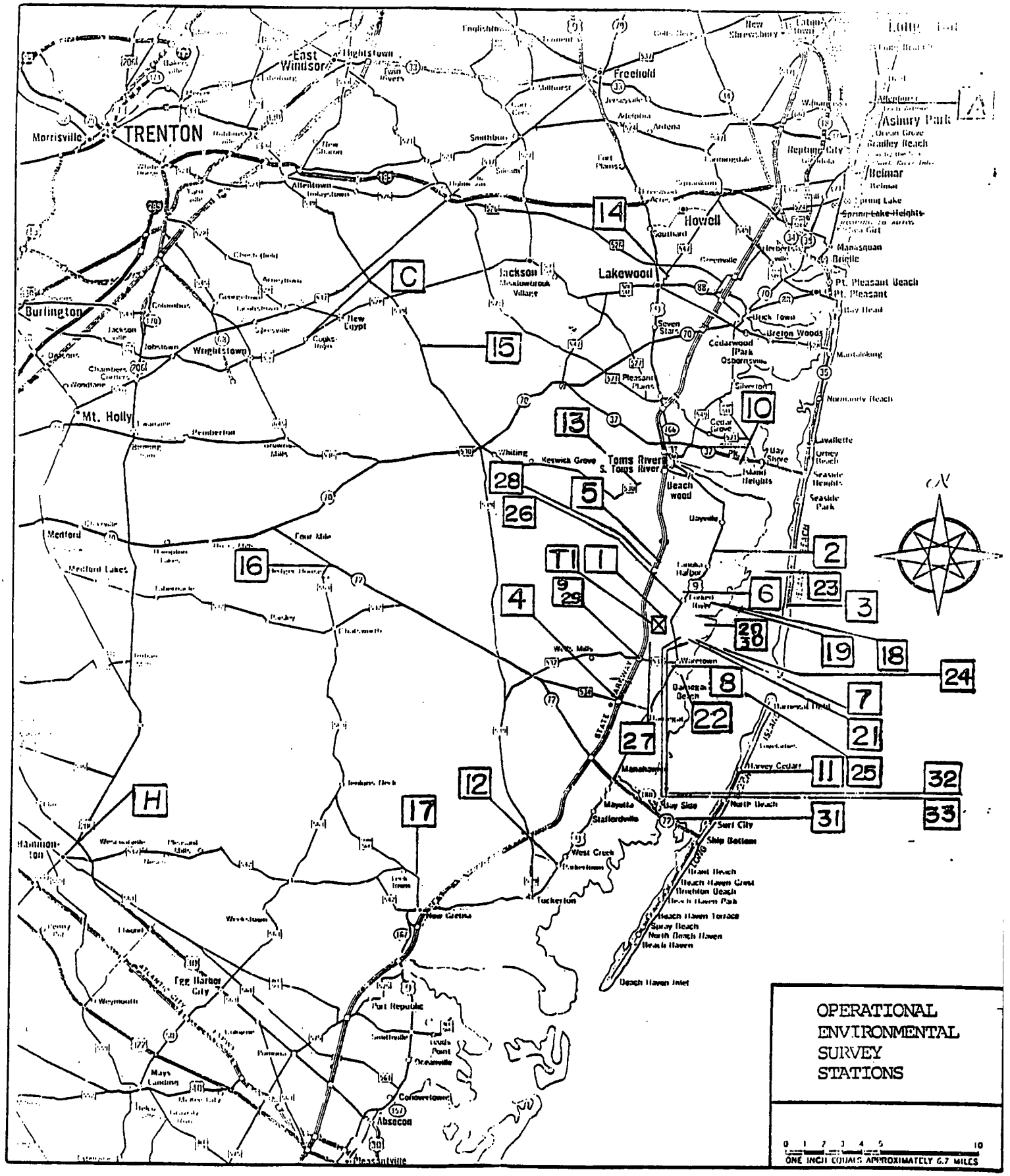


Table 11
Radiogas Film Badges
Scheduled Collection Period
June, 1983 Through November, 1983

Collection Date		6-20-83	7-18-83	8-15-83	Three Month Total	9-12-83	10-11-83	11-7-83	12-5-83	Four Month Total	Seven Month Total
Station	Unit										
1	Millirem	0	0	0	0	0	0	0	0	0	0
T1	Millirem	0	0	0	0	0	0	0	0	0	0
2	Millirem	0	0	0	0	0	0	0	0	0	0
3	Millirem	0	0	0	0	0	0	0	0	0	0
4	Millirem	0	0	0	0	0	0	0	0	0	0
5	Millirem	0	0	0	0	0	0	0	0	0	0
6	Millirem	0	0	0	0	0	0	0	0	0	0
7	Millirem	0	0	0	0	0	0	0	0	0	0
8	Millirem	0	0	0	0	0	0	0	0	0	0
9	Millirem	0	0	0	0	0	0	0	0	0	0
10	Millirem	0	0	0	0	0	0	0	0	0	0
11	Millirem	0	0	0	0	0	0	0	0	0	0
12	Millirem	0	0	0	0	0	LOST	0	0	-	-
13	Millirem	0	0	0	0	0	0	0	0	0	0
14	Millirem	0	0	0	0	0	0	0	0	0	0
15	Millirem	0	0	0	0	0	0	LOST	0	-	-
16	Millirem	0	0	0	0	0	0	0	0	0	0
17	Millirem	0	0	0	0	0	0	0	0	0	0
A	Millirem	0	0	0	0	0	0	0	0	0	0
C	Millirem	0	0	0	0	0	0	0	0	0	0
H	Millirem	0	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,1983 THROUGH NOVEMBER,1983 (MONTHLY TLD READINGS)

DATE:	30JUN83		29JUL83		24AUG83			28SEP83		21OCT83		16NOV83			
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	21JUN83	6.40	22JUL83	7.40	15AUG83	5.70	19.50	16SEP83	6.80	15OCT83	7.50	08NOV83	6.80	21.10	40.60
C	23JUN83	6.60	20JUL83	7.00	17AUG83	4.80	18.40	14SEP83	6.60	14OCT83	6.60	08NOV83	6.20	19.40	37.80
H	23JUN83	5.10	19JUL83	7.50	16AUG83	4.00	16.60	14SEP83	6.20	14OCT83	6.00	14NOV83	4.70	16.90	33.50
1	20JUN83	5.80	21JUL83	6.90	17AUG83	4.50	17.20	13SEP83	7.50	11OCT83	6.90	07NOV83	6.20	20.60	37.80
2	22JUN83	6.50	21JUL83	6.30	18AUG83	4.40	17.20	19SEP83	5.90	11OCT83	8.00	07NOV83	5.60	19.50	36.70
3	22JUN83	5.20	20JUL83	6.80	15AUG83	4.80	16.80	15SEP83	6.30	15OCT83	5.90	09NOV83	6.10	18.30	35.10
4	20JUN83	4.90	19JUL83	6.70	18AUG83	4.00	15.60	13SEP83	6.70	13OCT83	6.10	09NOV83	5.30	18.10	33.70
5	24JUN83	6.50	22JUL83	6.90	18AUG83	4.70	18.10	16SEP83	6.60	11OCT83	7.00	09NOV83	5.20	18.80	36.90
6	21JUN83	7.30	21JUL83	6.70	18AUG83	4.30	18.30	16SEP83	5.70	15OCT83	6.30	07NOV83	6.30	18.30	36.60
7	20JUN83	4.80	21JUL83	5.90	17AUG83	4.30	15.00	TLD LOST		16OCT83	6.60	09NOV83	5.80	12.40	27.40
8	20JUN83	4.90	19JUL83	6.90	17AUG83	4.10	15.90	12SEP83	6.50	13OCT83	5.60	11NOV83	5.10	17.20	33.10
9	07JUL83	5.10	22JUL83	5.90	18AUG83	4.40	15.40	12SEP83	7.40	13OCT83	5.90	11NOV83	5.50	18.80	34.20
T1	20JUN83	6.00	21JUL83	7.00	17AUG83	5.00	18.00	13SEP83	7.00	11OCT83	7.00	07NOV83	6.20	20.20	38.20
10	21JUN83	4.90	20JUL83	6.70	15AUG83	4.50	16.10	15SEP83	5.50	16OCT83	5.90	09NOV83	5.50	16.90	33.00
11	20JUN83	5.30	19JUL83	6.20	16AUG83	3.80	15.30	12SEP83	5.70	12OCT83	6.00	11NOV83	4.80	16.50	31.80
12	23JUN83	5.10	19JUL83	7.40	16AUG83	3.90	16.40	12SEP83	6.00	TLD LOST		11NOV83	5.40	11.40	27.80
13	21JUN83	5.30	20JUL83	6.30	15AUG83	4.20	15.80	15SEP83	5.30	16OCT83	5.80	08NOV83	6.00	17.10	32.90
14	21JUN83	6.30	20JUL83	7.70	15AUG83	5.70	19.70	16SEP83	6.70	15OCT83	7.70	08NOV83	7.00	21.40	41.10
15	23JUN83	6.30	20JUL83	6.90	16AUG83	4.50	17.70	14SEP83	6.00	14OCT83	5.90	TLD LOST		11.90	29.60
16	20JUN83	5.20	19JUL83	6.50	16AUG83	3.90	15.60	12SEP83	6.00	12OCT83	5.80	11NOV83	5.10	16.90	32.50
17	23JUN83	5.40	19JUL83	7.30	16AUG83	4.00	16.70	14SEP83	6.10	14OCT83	6.30	11NOV83	5.20	17.60	34.30

TABLE 13
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1982 THROUGH NOVEMBER,1983

THE FOLLOWING PAGES ARE A SUMMARY OF REMP DATA FOR THE SCHEDULED COLLECTION PERIOD JUNE,1983 THRU NOVEMBER,1983. 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
SAMPLE TYPE	AIR PARTICULATE	SEDIMENT
	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
CORN	A,C,H
TOMATOES	1,3,4,5,A,C,H
CUCUMBERS	1,4
BROCCOLI	3,5

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH NOVEMBER,1983
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	1.89E+02	7.38E+03 (30 /30) (2.50E+03 - 2.70E+04)		. (. /.) (. - .)	1 2 3 4 5
						4	9.67E+03(6 /6) (3.00E+03 - 2.70E+04)	
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		104	9.83E-04	1.96E-03 (41 /65) (8.30E-04 - 7.10E-03)		1.67E-03(30 /39) (7.70E-04 - 3.50E-03)	1 2 3 4 5
						4	3.10E-03(3 /13) (1.00E-03 - 7.10E-03)	
AIR PARTICULATE (PCI/M3)	GROSS BETA		104	2.60E-03	1.66E-02 (60 /65) (2.40E-03 - 3.10E-02)		1.61E-02(39 /39) (9.00E-03 - 3.00E-02)	1 2 3 4 5
						5	1.83E-02(13 /13) (1.30E-02 - 2.50E-02)	
AIR PARTICULATE (PCI/M3)	GAMMA	CE-144	104	2.92E+00	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	CS-134	104	6.38E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	CO-58	104	6.66E-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,1983 THROUGH NOVEMBER,1983
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	5.88E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	FE-59	104	1.63E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	ZN-65	104	1.39E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	CO-60	104	7.01E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	K-40	103	1.49E-01	1.63E-01 (3 /65) (8.00E-02 - 2.30E-01)		1.20E-01(1 /38) (1.20E-01 - 1.20E-01)	1 2 3 4 5
						5	2.05E-01(2 /13) (1.80E-01 - 2.30E-01)	
AIR PARTICULATE (PCI/M3)	GAMMA	BE-7	104	7.47E-02	1.12E-01 (23 /65) (4.90E-02 - 2.10E-01)		1.10E-01(20 /39) (7.40E-02 - 1.80E-01)	1 2 3 4 5
						2	1.35E-01(3 /13) (7.50E-02 - 2.10E-01)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH NOVEMBER,1983
SEMI-ANNUAL SUMMARY

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
AIR PARTICULATE (PCI/M3)	GAMMA	ZR-95	104	1.45E-02	< LLD (0 /65)			< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)		
AIR PARTICULATE (PCI/M3)	GAMMA	NB-95	104	7.61E-03	< LLD (0 /65)			< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)		
AIR PARTICULATE (PCI/M3)	GAMMA	CE-141	104	7.69E+01	< LLD (0 /65)			< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)		
AIR PARTICULATE (PCI/M3)	GAMMA	RU-103	104	7.84E-03	< LLD (0 /65)			< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)		
AIR PARTICULATE (PCI/M3)	GAMMA	BA-140	104	4.64E-02	< LLD (0 /65)			< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)		
AIR PARTICULATE (PCI/M3)	GAMMA	LA-140	104	1.95E+00	< 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,1983 THROUGH NOVEMBER,1983
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	7.79E+00	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	TH-228	104	1.02E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	I-131	104	4.26E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	RU-106	104	5.44E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	GAMMA	CS-137	104	6.61E-03	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		8	1.27E-03	< LLD (0 /5)		< LLD (0 /3)	1 2 3 4 5
						5	< LLD (0 /1)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH NOVEMBER,1983
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		8	2.89E-04	< LLD (0 /5)		< LLD (0 /3)	1 2 3 4 5
						5	< LLD (0 /1)	
PRECIPITATION (PCI/L)	GROSS BETA-SS		48	6.47E-01	1.02E+00 (11 /30) (4.00E-01 - 2.30E+00)		9.52E-01(5 /18) (4.70E-01 - 1.30E+00)	1 2 3 4 5
						5	1.50E+00(2 /6) (7.10E-01 - 2.30E+00)	
PRECIPITATION (PCI/L)	GROSS BETA-DS		48	1.15E+00	5.06E+00 (30 /30) (1.50E+00 - 1.40E+01)		7.59E+00(18 /18) (1.00E+00 - 4.90E+01)	1 2 3 4 5
						2	6.38E+00(6 /6) (3.20E+00 - 1.40E+01)	
PRECIPITATION (PCI/L)	GAMMA	CE-144	48	3.52E+01	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	CS-134	48	5.00E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	CO-58	48	5.01E+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,1983 THROUGH NOVEMBER,1983
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	4.57E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	FE-59	48	9.85E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	ZN-65	48	8.73E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	CO-60	48	4.81E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	K-40	48	8.15E+01	7.70E+01 (1 /30) (7.70E+01 - 7.70E+01)		< LLD (0 /18)	1 2 3 4 5
						3	7.70E+01(1 /6) (7.70E+01 - 7.70E+01)	
PRECIPITATION (PCI/L)	GAMMA	BE-7	48	4.78E+01	1.50E+02 (4 /30) (6.80E+01 - 2.90E+02)		7.27E+01(3 /18) (5.30E+01 - 1.00E+02)	1 2 3 4 5
						4	2.90E+02(1 /6) (2.90E+02 - 2.90E+02)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH NOVEMBER,1983
SEMI-ANNUAL SUMMARY

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
PRECIPITATION (PCI/L)	GAMMA	ZR-95	48	1.00E+01	< LLD (0 /30)			< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)		
PRECIPITATION (PCI/L)	GAMMA	NB-95	48	5.38E+00	< LLD (0 /30)			< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)		
PRECIPITATION (PCI/L)	GAMMA	CE-141	48	1.12E+01	< LLD (0 /30)			< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)		
PRECIPITATION (PCI/L)	GAMMA	RU-103	48	6.22E+00	< LLD (0 /30)			< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)		
PRECIPITATION (PCI/L)	GAMMA	BA-140	48	2.74E+01	< LLD (0 /30)			< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)		
PRECIPITATION (PCI/L)	GAMMA	LA-140	48	1.11E+01	< 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,1983 THROUGH NOVEMBER,1983
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKROUND-MEAN(N/TOTAL) RANGE	STATION	STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	RA-226	48	9.32E+01	< LLD (0 /30)		< LLD (0 /18)			1 2 3 4 5
						5		5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	TH-228	48	8.59E+00	< LLD (0 /30)		< LLD (0 /18)			1 2 3 4 5
						5		5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	I-131	48	2.29E+01	< LLD (0 /30)		< LLD (0 /18)			1 2 3 4 5
						5		5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	RU-106	48	3.66E+01	< LLD (0 /30)		< LLD (0 /18)			1 2 3 4 5
						5		5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	GAMMA	CS-137	48	6.11E+00	< LLD (0 /30)		< LLD (0 /18)			1 2 3 4 5
						5		5	< LLD (0 /6)	
PRECIPITATION (PCI/L)	TRITIUM		48	1.49E+02	2.48E+02 (26 /30) (6.75E+01 - 8.80E+02)		3.67E+02(14 /18) (1.01E+02 - 9.80E+02)			1 2 3 4 5
						4		4	2.98E+02(5 /6) (6.75E+01 - 8.80E+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 ( )	STRONTIUM-89		48	2.92E+00	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
PRECIPITATION ( )	STRONTIUM-90		48	5.91E-01	< LLD (0 /30)		< LLD (0 /18)	1 2 3 4 5
						5	< LLD (0 /6)	
AIR IODINE (PCI/M3)	IODINE-131		104	2.45E-02	< LLD (0 /65)		< LLD (0 /39)	1 2 3 4 5
						5	< LLD (0 /13)	
CORN (PCI/KG(WET))	GAMMA	CE-144	3	6.67E+01	(. - . (. /.))		< LLD (0 /3)	
							(. . - . (. /.))	
CORN (PCI/KG(WET))	GAMMA	CS-134	3	9.00E+00	(. - . (. /.))		< LLD (0 /3)	
							(. - . (. /.))	
CORN (PCI/KG(WET))	GAMMA	CO-58	3	1.00E+01	(. - . (. /.))		< LLD (0 /3)	
							(. - . (. /.))	

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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
CORN (PCI/KG(WET))	GAMMA	MN-54	3	8.67E+00	(. - .)		(. /.)	< LLD (0 /3)	
							(. - .)		
CORN (PCI/KG(WET))	GAMMA	FE-59	3	3.00E+01	(. - .)		(. /.)	< LLD (0 /3)	
							(. - .)		
CORN (PCI/KG(WET))	GAMMA	ZN-65	3	2.00E+01	(. - .)		(. /.)	< LLD (0 /3)	
							(. - .)		
CORN (PCI/KG(WET))	GAMMA	CO-60	3	8.33E+00	(. - .)		(. /.)	< LLD (0 /3)	
							(. - .)		
CORN (PCI/KG(WET))	GAMMA	K-40	3	3.00E+02	(. - .)		(. /.)	2.60E+03(3 /3) (2.50E+03 - 2.70E+03)	
							(. - .)		
CORN (PCI/KG(WET))	GAMMA	BE-7	3	1.00E+02	(. - .)		(. /.)	< LLD (0 /3)	
							(. - .)		

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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
CORN (PCI/KG(WET))	GAMMA	ZR-95	3	2.07E+01	(. (. /.) - .)		< LLD (0 /3)	
						(. (. /.) - .)		
CORN (PCI/KG(WET))	GAMMA	NB-95	3	1.00E+01	(. (. /.) - .)		< LLD (0 /3)	
						(. (. /.) - .)		
CORN (PCI/KG(WET))	GAMMA	CE-141	3	3.00E+01	(. (. /.) - .)		< LLD (0 /3)	
						(. (. /.) - .)		
CORN (PCI/KG(WET))	GAMMA	RU-103	3	1.67E+01	(. (. /.) - .)		< LLD (0 /3)	
						(. (. /.) - .)		
CORN (PCI/KG(WET))	GAMMA	BA-140	3	1.67E+02	(. (. /.) - .)		< LLD (0 /3)	
						(. (. /.) - .)		
CORN (PCI/KG(WET))	GAMMA	LA-140	3	6.33E+01	(. (. /.) - .)		< LLD (0 /3)	
						(. (. /.) - .)		

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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
CORN (PCI/KG(WET))	GAMMA	RA-226	3	2.00E+02	(. - . (. /.))		< LLD (0 /3)	
							(. - . (. /.))	
CORN (PCI/KG(WET))	GAMMA	TH-228	3	2.00E+01	(. - . (. /.))		< LLD (0 /3)	
							(. - . (. /.))	
CORN (PCI/KG(WET))	GAMMA	I-131	3	2.67E+02	(. - . (. /.))		< LLD (0 /3)	
							(. - . (. /.))	
CORN (PCI/KG(WET))	GAMMA	RU-106	3	8.00E+01	(. - . (. /.))		< LLD (0 /3)	
							(. - . (. /.))	
CORN (PCI/KG(WET))	GAMMA	CS-137	3	9.33E+00	(. - . (. /.))		< LLD (0 /3)	
							(. - . (. /.))	
CUCUMBERS (PCI/KG(WET))	GAMMA	CE-144	2	5.00E+01	< LLD (0 /2)		(. - . (. /.))	1 4
						4	< LLD (0 /1)	

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CUCUMBERS (PCI/KG(WET))	GAMMA	CS-134	2	6.50E+00	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	CO-58	2	8.50E+00	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	MN-54	2	7.00E+00	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	FE-59	2	2.00E+01	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	ZN-65	2	1.50E+01	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	CO-60	2	7.50E+00	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< 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	K-40	2	2.50E+02	1.14E+03 (2 /2) (9.80E+02 - 1.30E+03)		. (. /.) (. - .)	1 4
						1	1.30E+03(1 /1) (1.30E+03 - 1.30E+03)	
CUCUMBERS (PCI/KG(WET))	GAMMA	BE-7	2	8.50E+01	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	ZR-95	2	2.00E+01	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	NB-95	2	9.50E+00	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	CE-141	2	2.00E+01	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	RU-103	2	1.00E+01	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	

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CUCUMBERS (PCI/KG(WET))	GAMMA	BA-140	2	9.00E+01	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	LA-140	2	3.50E+01	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	RA-226	2	1.00E+02	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	TH-228	2	1.00E+01	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	I-131	2	9.00E+01	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< LLD (0 /1)	
CUCUMBERS (PCI/KG(WET))	GAMMA	RU-106	2	6.50E+01	< LLD (0 /2)		. (. /.) (. - .)	1 4
						4	< 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	CS-137	2	9.00E+00	1.60E+01 (1 /2) (1.60E+01 - 1.60E+01)		. (. /.) (. - .)	1 4
						4	1.60E+01(1 /1) (1.60E+01 - 1.60E+01)	
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		48	4.45E-01	3.68E+00 (6 /42) (3.00E+00 - 4.20E+00)		4.10E+00(1 /6) (4.10E+00 - 4.10E+00)	23 24 25 26 27 32 33
						26	4.20E+00(1 /6) (4.20E+00 - 4.20E+00)	
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		48	4.29E+01	1.63E+01 (8 /42) (9.70E-01 - 7.80E+01)		< LLD (0 /6)	23 24 25 26 27 32 33
						23	7.80E+01(1 /6) (7.80E+01 - 7.80E+01)	
SURFACE WATER (PCI/L)	GROSS BETA-SS		48	8.68E-01	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GROSS BETA-DS		48	3.72E+01	2.18E+02 (42 /42) (1.20E+00 - 4.70E+02)		3.38E+02(6 /6) (2.50E+02 - 4.10E+02)	23 24 25 26 27 32 33
						24	3.77E+02(6 /6) (2.30E+02 - 4.70E+02)	
SURFACE WATER (MG/L)	CALCIUM BY AA		48	1.00E+01	3.84E+02 (35 /42) (4.70E+00 - 1.10E+03)		6.20E+02(6 /6) (3.90E+02 - 1.20E+03)	23 24 25 26 27 32 33
						25	5.62E+02(6 /6) (3.70E+02 - 1.10E+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
SURFACE WATER (PCI/L)	GAMMA	CE-144	48	3.85E+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	5.92E+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	5.40E+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	4.72E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	FE-59	48	1.20E+01	< 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	9.63E+00	< LLD (0 /42)		< 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	STATION-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GAMMA	CO-60	48	4.76E+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	1.15E+02	1.68E+02 (16 /42) (9.20E+01 - 2.50E+02)			2.80E+02(4 /6) (1.80E+02 - 3.80E+02)	23 24 25 26 27 32 33
						23	1.87E+02(3 /6) (1.50E+02 - 2.30E+02)		
SURFACE WATER (PCI/L)	GAMMA	BE-7	48	5.22E+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	1.08E+01	< LLD (0 /42)			< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)		
SURFACE WATER (PCI/L)	GAMMA	NB-95	48	6.40E+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	1.23E+01	< 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	RU-103	48	6.67E+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	4.07E+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	1.61E+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	1.03E+02	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	GAMMA	TH-228	48	8.89E+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	4.48E+01	< 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	RU-106	48	4.38E+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	5.31E+00	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	TRITIUM		48	1.10E+02	2.22E+02 (29 /42) (7.00E+01 - 9.90E+02)		3.25E+02(4 /6) (1.10E+02 - 6.00E+02)	23 24 25 26 27 32 33
						27	3.95E+02(2 /6) (2.50E+02 - 5.40E+02)	
SURFACE WATER (PCI/L)	RADIUM-226		48	2.09E-01	9.06E-01 (13 /42) (2.20E-01 - 2.43E+00)		2.80E-01(2 /6) (2.70E-01 - 2.90E-01)	23 24 25 26 27 32 33
						33	2.43E+00(1 /6) (2.43E+00 - 2.43E+00)	
SURFACE WATER (PCI/L)	RADIUM-228		48	3.78E-01	7.10E-01 (19 /42) (1.93E-01 - 5.00E+00)		5.60E-01(3 /6) (2.91E-01 - 8.40E-01)	23 24 25 26 27 32 33
						27	1.58E+00(4 /6) (2.80E-01 - 5.00E+00)	
SURFACE WATER (PCI/L)	STRONTIUM-89		48	1.45E+00	< LLD (0 /42)		< 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
SURFACE WATER (PCI/L)	STRONTIUM-90		48	6.38E-01	< LLD (0 /42)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SURFACE WATER (PCI/L)	TOTAL URANIUM		24	5.00E-02	6.06E+00 (21 /21) (2.30E-01 - 1.00E+02)		2.06E+00(3 /3) (1.97E+00 - 2.20E+00)	23 24 25 26 27 32 33
						33	3.42E+01(3 /3) (9.00E-01 - 1.00E+02)	
SURFACE WATER (PCI/L)	U-234		24	1.04E+00	2.40E+00 (15 /21) (1.60E-01 - 1.40E+01)		2.13E+01(2 /3) (1.70E+00 - 4.10E+01)	23 24 25 26 27 32 33
						26	1.40E+01(1 /3) (1.40E+01 - 1.40E+01)	
SURFACE WATER (PCI/L)	U-235		24	9.10E-01	1.37E+00 (2 /21) (7.40E-01 - 2.00E+00)		3.00E+00(1 /3) (3.00E+00 - 3.00E+00)	23 24 25 26 27 32 33
						26	2.00E+00(1 /3) (2.00E+00 - 2.00E+00)	
SURFACE WATER (PCI/L)	U-238		24	1.17E+00	1.25E+01 (10 /21) (3.20E-01 - 1.00E+02)		1.28E+00(2 /3) (6.70E-01 - 1.90E+00)	23 24 25 26 27 32 33
						26	1.00E+02(1 /3) (1.00E+02 - 1.00E+02)	
TOMATOES (PCI/KG(WET))	GAMMA	CE-144	7	7.29E+01	< LLD (0 /4)		< LLD (0 /3)	1 3 4 5
						5	< 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		
TOMATOES (PCI/KG(WET))	GAMMA	CS-134	7	9.57E+00	< LLD	(0 /4)	< LLD	(0 /3)	1 3 4 5
						5	< LLD (0 /1)		
TOMATOES (PCI/KG(WET))	GAMMA	CO-58	7	1.04E+01	< LLD	(0 /4)	< LLD	(0 /3)	1 3 4 5
						5	< LLD (0 /1)		
TOMATOES (PCI/KG(WET))	GAMMA	MN-54	7	9.43E+00	< LLD	(0 /4)	< LLD	(0 /3)	1 3 4 5
						5	< LLD (0 /1)		
TOMATOES (PCI/KG(WET))	GAMMA	FE-59	7	3.00E+01	< LLD	(0 /4)	< LLD	(0 /3)	1 3 4 5
						5	< LLD (0 /1)		
TOMATOES (PCI/KG(WET))	GAMMA	ZN-65	7	2.29E+01	< LLD	(0 /4)	< LLD	(0 /3)	1 3 4 5
						5	< LLD (0 /1)		
TOMATOES (PCI/KG(WET))	GAMMA	CO-60	7	9.57E+00	< LLD	(0 /4)	< LLD	(0 /3)	1 3 4 5
						5	< 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	K-40	7	3.71E+02	2.17E+03 (4 /4) (1.80E+03 - 2.50E+03)		2.50E+03(3 /3) (2.10E+03 - 2.80E+03)	1 3 4 5
						3	2.50E+03(1 /1) (2.50E+03 - 2.50E+03)	
TOMATOES (PCI/KG(WET))	GAMMA	BE-7	7	1.06E+02	< LLD (0 /4)		< LLD (0 /3)	1 3 4 5
						5	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	ZR-95	7	2.71E+01	< LLD (0 /4)		< LLD (0 /3)	1 3 4 5
						5	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	NB-95	7	1.37E+01	< LLD (0 /4)		< LLD (0 /3)	1 3 4 5
						5	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	CE-141	7	3.29E+01	< LLD (0 /4)		< LLD (0 /3)	1 3 4 5
						5	< LLD (0 /1)	
TOMATOES (PCI/KG(WET))	GAMMA	RU-103	7	1.57E+01	< LLD (0 /4)		< LLD (0 /3)	1 3 4 5
						5	< LLD (0 /1)	

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TOMATOES (PCI/KG(WET))	GAMMA	BA-140	7	1.54E+02	< LLD (0 /4)			< LLD (0 /3)	1 3 4 5
						5	< LLD (0 /1)		
TOMATOES (PCI/KG(WET))	GAMMA	LA-140	7	5.57E+01	< LLD (0 /4)			< LLD (0 /3)	1 3 4 5
						5	< LLD (0 /1)		
TOMATOES (PCI/KG(WET))	GAMMA	RA-226	7	1.86E+02	< LLD (0 /4)			< LLD (0 /3)	1 3 4 5
						5	< LLD (0 /1)		
TOMATOES (PCI/KG(WET))	GAMMA	TH-228	7	1.71E+01	< LLD (0 /4)			< LLD (0 /3)	1 3 4 5
						5	< LLD (0 /1)		
TOMATOES (PCI/KG(WET))	GAMMA	I-131	7	2.00E+02	< LLD (0 /4)			< LLD (0 /3)	1 3 4 5
						5	< LLD (0 /1)		
TOMATOES (PCI/KG(WET))	GAMMA	RU-106	7	8.86E+01	< LLD (0 /4)			< LLD (0 /3)	1 3 4 5
						5	< LLD (0 /1)		

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TOMATOES (PCI/KG(WET))	GAMMA	CS-137	7	9.86E+00	< LLD	(0 /4)		< LLD	(0 /3)	1 3 4 5
							5	< LLD	(0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	CE-144	2	7.50E+01	< LLD	(0 /2)		(. - .)	(. /.)	3 5
							5	< LLD	(0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	CS-134	2	1.00E+01	< LLD	(0 /2)		(. - .)	(. /.)	3 5
							5	< LLD	(0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	CO-58	2	1.00E+01	< LLD	(0 /2)		(. - .)	(. /.)	3 5
							5	< LLD	(0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	MN-54	2	1.00E+01	< LLD	(0 /2)		(. - .)	(. /.)	3 5
							5	< LLD	(0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	FE-59	2	3.50E+01	< LLD	(0 /2)		(. - .)	(. /.)	3 5
							5	< 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	ZN-65	2	2.50E+01	< LLD (0 /2)		. (. /.) (. - .)	3 5
						5	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	CO-60	2	1.00E+01	< LLD (0 /2)		. (. /.) (. - .)	3 5
						5	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	K-40	2	4.50E+02	4.80E+03 (2 /2) (4.10E+03 - 5.50E+03)		. (. /.) (. - .)	3 5
						5	5.50E+03(1 /1) (5.50E+03 - 5.50E+03)	
BROCCOLI (PCI/KG(WET))	GAMMA	BE-7	2	1.50E+02	< LLD (0 /2)		. (. /.) (. - .)	3 5
						5	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	ZR-95	2	3.00E+01	< LLD (0 /2)		. (. /.) (. - .)	3 5
						5	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	NB-95	2	1.50E+01	< LLD (0 /2)		. (. /.) (. - .)	3 5
						5	< 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		
BROCCOLI (PCI/KG(WET))	GAMMA	CE-141	2	3.00E+01	< LLD	(0 /2)	. (. - .)	(. /.)	3 5
						5	< LLD (0 /1)		
BROCCOLI (PCI/KG(WET))	GAMMA	RU-103	2	2.00E+01	< LLD	(0 /2)	. (. - .)	(. /.)	3 5
						5	< LLD (0 /1)		
BROCCOLI (PCI/KG(WET))	GAMMA	BA-140	2	2.00E+02	< LLD	(0 /2)	. (. - .)	(. /.)	3 5
						5	< LLD (0 /1)		
BROCCOLI (PCI/KG(WET))	GAMMA	LA-140	2	6.00E+01	< LLD	(0 /2)	. (. - .)	(. /.)	3 5
						5	< LLD (0 /1)		
BROCCOLI (PCI/KG(WET))	GAMMA	RA-226	2	2.00E+02	< LLD	(0 /2)	. (. - .)	(. /.)	3 5
						5	< LLD (0 /1)		
BROCCOLI (PCI/KG(WET))	GAMMA	TH-228	2	2.00E+01	< LLD	(0 /2)	. (. - .)	(. /.)	3 5
						5	< 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	I-131	2	2.00E+02	< LLD (0 /2)		. (. /.) (. - .)	3 5
						5	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	RU-106	2	9.50E+01	< LLD (0 /2)		. (. /.) (. - .)	3 5
						5	< LLD (0 /1)	
BROCCOLI (PCI/KG(WET))	GAMMA	CS-137	2	2.00E+01	5.90E+01 (2 /2) (5.50E+01 - 6.30E+01)		. (. /.) (. - .)	3 5
						3	6.30E+01(1 /1) (6.30E+01 - 6.30E+01)	
WELL WATER (PCI/L)	GROSS ALPHA-SS		36	4.47E-01	< LLD (0 /36)		. (. /.) (. - .)	1 18 19 20 21 22
						22	< LLD (0 /6)	
WELL WATER (PCI/L)	GROSS ALPHA-DS		36	8.52E-01	1.83E+00 (17 /36) (8.20E-01 - 4.30E+00)		. (. /.) (. - .)	1 18 19 20 21 22
						21	3.02E+00(4 /6) (1.60E+00 - 4.30E+00)	
WELL WATER (PCI/L)	GROSS BETA-SS		36	8.72E-01	9.40E-01 (1 /36) (9.40E-01 - 9.40E-01)		. (. /.) (. - .)	1 18 19 20 21 22
						1	9.40E-01(1 /6) (9.40E-01 - 9.40E-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
WELL WATER (PCI/L)	GROSS BETA-DS		36	1.07E+00	3.29E+00 (35 /36) (1.10E-01 - 6.80E+00)		. (. /.) (. - .)	1 18 19 20 21 22
						20	4.13E+00(6 /6) (3.10E+00 - 6.30E+00)	
WELL WATER (PCI/L)	POTASSIUM-40		12	2.00E-01	1.97E+00 (12 /12) (9.10E-01 - 2.50E+00)		. (. /.) (. - .)	1 18 19 20 21 22
						19	2.50E+00(2 /2) (2.50E+00 - 2.50E+00)	
WELL WATER (PCI/L)	GAMMA	CE-144	12	3.67E+01	< LLD (0 /12)		. (. /.) (. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	CS-134	12	4.75E+00	< LLD (0 /12)		. (. /.) (. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	CO-58	12	4.75E+00	< LLD (0 /12)		. (. /.) (. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	MN-54	12	4.25E+00	< LLD (0 /12)		. (. /.) (. - .)	1 18 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	FE-59	12	1.00E+01	< LLD (0 /12)		. (. /.) (. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	ZN-65	12	9.25E+00	< LLD (0 /12)		. (. /.) (. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	CO-60	12	4.50E+00	< LLD (0 /12)		. (. /.) (. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	K-40	12	9.25E+01	1.10E+02 (1 /12) (1.10E+02 - 1.10E+02)		. (. /.) (. - .)	1 18 19 20 21 22
						19	1.10E+02(1 /2) (1.10E+02 - 1.10E+02)	
WELL WATER (PCI/L)	GAMMA	BE-7	12	4.67E+01	< LLD (0 /12)		. (. /.) (. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	ZR-95	12	9.17E+00	< LLD (0 /12)		. (. /.) (. - .)	1 18 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	STATION-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	NB-95	12	5.08E+00	< LLD (0 /12)		. (. /.)	(. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)		
WELL WATER (PCI/L)	GAMMA	CE-141	12	1.13E+01	< LLD (0 /12)		. (. /.)	(. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)		
WELL WATER (PCI/L)	GAMMA	RU-103	12	6.17E+00	< LLD (0 /12)		. (. /.)	(. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)		
WELL WATER (PCI/L)	GAMMA	BA-140	12	3.67E+01	< LLD (0 /12)		. (. /.)	(. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)		
WELL WATER (PCI/L)	GAMMA	LA-140	12	1.41E+01	< LLD (0 /12)		. (. /.)	(. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)		
WELL WATER (PCI/L)	GAMMA	RA-226	12	8.92E+01	< LLD (0 /12)		. (. /.)	(. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)		

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WELL WATER (PCI/L)	GAMMA	TH-228	12	8.92E+00	< LLD (0 /12)		. (. /.) (. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	I-131	12	3.41E+01	< LLD (0 /12)		. (. /.) (. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	RU-106	12	3.87E+01	< LLD (0 /12)		. (. /.) (. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	GAMMA	CS-137	12	4.83E+00	< LLD (0 /12)		. (. /.) (. - .)	1 18 19 20 21 22
						22	< LLD (0 /2)	
WELL WATER (PCI/L)	TRITIUM		12	1.20E+02	4.63E+02 (4 /12) (1.00E+02 - 1.20E+03)		. (. /.) (. - .)	1 18 19 20 21 22
						1	1.20E+03(1 /2) (1.20E+03 - 1.20E+03)	
WELL WATER (PCI/L)	RADIUM-226		12	3.32E-01	1.46E+00 (4 /12) (4.20E-01 - 2.47E+00)		. (. /.) (. - .)	1 18 19 20 21 22
						18	2.04E+00(1 /2) (2.04E+00 - 2.04E+00)	

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WELL WATER (PCI/L)	RADIUM-228		12	5.32E-01	6.30E-01 (3 /12) (3.20E-01 - 1.06E+00)		. (. /.) (. - .)	1 18 19 20 21 22
						21	1.06E+00(1 /2) (1.06E+00 - 1.06E+00)	
WELL WATER (PCI/L)	TOTAL URANIUM		6	3.40E-02	5.89E-01 (6 /6) (8.16E-02 - 1.70E+00)		. (. /.) (. - .)	1 18 19 20 21 22
						19	1.70E+00(1 /1) (1.70E+00 - 1.70E+00)	
WELL WATER (PCI/L)	U-234		6	1.54E-01	9.89E+00 (6 /6) (3.50E-01 - 5.20E+01)		. (. /.) (. - .)	1 18 19 20 21 22
						22	5.20E+01(1 /1) (5.20E+01 - 5.20E+01)	
WELL WATER (PCI/L)	U-235		6	5.90E-01	1.63E+00 (6 /6) (5.10E-01 - 5.00E+00)		. (. /.) (. - .)	1 18 19 20 21 22
						19	5.00E+00(1 /1) (5.00E+00 - 5.00E+00)	
WELL WATER (PCI/L)	U-238		6	3.38E-01	7.73E-01 (6 /6) (2.60E-01 - 3.00E+00)		. (. /.) (. - .)	1 18 19 20 21 22
						19	3.00E+00(1 /1) (3.00E+00 - 3.00E+00)	
CLAMS (PCI/KG(WET))	GROSS ALPHA		24	4.54E+02	1.15E+02 (10 /18) (4.70E+01 - 2.30E+02)		7.10E+01(3 /6) (4.20E+01 - 1.20E+02)	23 24 25
						23	1.53E+02(3 /6) (4.90E+01 - 2.30E+02)	

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CLAMS (PCI/KG(WET))	GROSS BETA		24	2.13E+02	8.26E+03 (18 /18) (1.70E+03 - 5.00E+04)		7.93E+03(6 /6) (1.80E+03 - 3.60E+04)	23 24 25
						23	1.05E+04(6 /6) (1.80E+03 - 5.00E+04)	
CLAMS (MG/GM(WET))	CALCIUM BY AA		8	1.00E-01	6.07E-01 (6 /6) (3.80E-01 - 9.50E-01)		4.20E-01(2 /2) (3.40E-01 - 5.00E-01)	23 24 25
						23	7.95E-01(2 /2) (6.40E-01 - 9.50E-01)	
CLAMS (PCI/KG(WET))	GAMMA	CE-144	8	6.25E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	CS-134	8	9.13E+00	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	CO-58	8	9.13E+00	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	MN-54	8	8.88E+00	< 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	STATION-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	FE-59	8	2.38E+01	< LLD (0 /6)			< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)		
CLAMS (PCI/KG(WET))	GAMMA	ZN-65	8	1.75E+01	< LLD (0 /6)			< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)		
CLAMS (PCI/KG(WET))	GAMMA	CO-60	8	1.25E+01	3.45E+01 (6 /6) (1.50E+01 - 1.10E+02)			< LLD (0 /2)	23 24 25
						24	6.85E+01(2 /2) (2.70E+01 - 1.10E+02)		
CLAMS (PCI/KG(WET))	GAMMA	K-40	8	2.88E+02	1.73E+03 (6 /6) (6.80E+02 - 5.40E+03)			9.90E+02(2 /2) (8.80E+02 - 1.10E+03)	23 24 25
						24	3.20E+03(2 /2) (1.00E+03 - 5.40E+03)		
CLAMS (PCI/KG(WET))	GAMMA	BE-7	8	8.88E+01	< LLD (0 /6)			< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)		
CLAMS (PCI/KG(WET))	GAMMA	ZR-95	8	2.25E+01	< 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		BACKROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
						STATION	STATION-MEAN(N/TOTAL) RANGE		
CLAMS (PCI/KG(WET))	GAMMA	NB-95	8	9.75E+00	< LLD	(0 /6)	< LLD	(0 /2)	23 24 25
						25	< LLD (0 /2)		
CLAMS (PCI/KG(WET))	GAMMA	CE-141	8	2.13E+01	< LLD	(0 /6)	< LLD	(0 /2)	23 24 25
						25	< LLD (0 /2)		
CLAMS (PCI/KG(WET))	GAMMA	RU-103	8	1.15E+01	< LLD	(0 /6)	< LLD	(0 /2)	23 24 25
						25	< LLD (0 /2)		
CLAMS (PCI/KG(WET))	GAMMA	BA-140	8	5.50E+01	< LLD	(0 /6)	< LLD	(0 /2)	23 24 25
						25	< LLD (0 /2)		
CLAMS (PCI/KG(WET))	GAMMA	LA-140	8	2.38E+01	< LLD	(0 /6)	< LLD	(0 /2)	23 24 25
						25	< LLD (0 /2)		
CLAMS (PCI/KG(WET))	GAMMA	RA-226	8	1.75E+02	< 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))	GAMMA	TH-228	8	1.50E+01	1.50E+02 (1 /6) (1.50E+02 - 1.50E+02)		< LLD (0 /2)	23 24 25
						24	1.50E+02(1 /2) (1.50E+02 - 1.50E+02)	
CLAMS (PCI/KG(WET))	GAMMA	I-131	8	4.38E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	RU-106	8	8.25E+01	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	GAMMA	CS-137	8	9.63E+00	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	STRONTIUM-89		8	6.63E+00	< LLD (0 /6)		< LLD (0 /2)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	STRONTIUM-90		8	3.25E+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
SOIL (PCI/KG(DRY))	GROSS BETA		30	1.93E+03	6.86E+03 (30 /30) (1.20E+03 - 1.40E+04)		. (. /.) (. - .)	1 2 3 4 5
						2	1.01E+04(6 /6) (5.40E+03 - 1.30E+04)	
SOIL (PCI/KG(DRY))	GAMMA	CE-144	10	1.67E+02	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	CS-134	10	2.70E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	CO-58	10	3.20E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	MN-54	10	2.50E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	FE-59	10	8.00E+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	ZN-65	10	5.70E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	CO-60	10	2.49E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	K-40	10	6.20E+02	1.59E+03 (8 /10) (9.30E+02 - 3.40E+03)		. (. /.) (. - .)	1 2 3 4 5
						1	2.30E+03(2 /2) (1.20E+03 - 3.40E+03)	
SOIL (PCI/KG(DRY))	GAMMA	BE-7	10	3.60E+02	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	ZR-95	10	6.11E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	NB-95	10	3.80E+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	CE-141	10	7.20E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	RU-103	10	4.50E+01	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	BA-140	10	4.50E+02	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	LA-140	10	1.85E+02	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	RA-226	10	4.50E+02	9.38E+02 (5 /10) (6.30E+02 - 2.00E+03)		. (. /.) (. - .)	1 2 3 4 5
						5	2.00E+03(1 /2) (2.00E+03 - 2.00E+03)	
SOIL (PCI/KG(DRY))	GAMMA	TH-228	10	5.80E+01	4.11E+02 (8 /10) (1.80E+02 - 8.80E+02)		. (. /.) (. - .)	1 2 3 4 5
						5	8.80E+02(1 /2) (8.80E+02 - 8.80E+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
SOIL (PCI/KG(DRY))	GAMMA	I-131	10	6.80E+02	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	RU-106	10	2.29E+02	< LLD (0 /10)		. (. /.) (. - .)	1 2 3 4 5
						5	< LLD (0 /2)	
SOIL (PCI/KG(DRY))	GAMMA	CS-137	10	7.00E+01	9.48E+02 (9 /10) (3.20E+01 - 2.90E+03)		. (. /.) (. - .)	1 2 3 4 5
						5	2.60E+03(2 /2) (2.30E+03 - 2.90E+03)	
PASTURE (PCI/KG(WET))	GROSS BETA		6	4.93E+01	1.09E+04 (6 /6) (6.40E+03 - 1.80E+04)		. (. /.) (. - .)	28 29 30
						29	1.60E+04(2 /2) (1.40E+04 - 1.80E+04)	
PASTURE (MG/GM(WET))	CALCIUM BY AA		6	6.00E-02	1.05E+00 (6 /6) (3.30E-01 - 2.40E+00)		. (. /.) (. - .)	28 29 30
						28	1.36E+00(2 /2) (3.30E-01 - 2.40E+00)	
PASTURE (PCI/KG(WET))	GAMMA	CE-144	6	2.13E+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	CS-134	6	3.00E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	CO-58	6	3.17E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	MN-54	6	3.00E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	FE-59	6	7.33E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	ZN-65	6	6.17E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	CO-60	6	3.00E+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	K-40	6	1.11E+03	4.87E+03 (6 /6) (2.60E+03 - 8.40E+03)		. (. /.) (. - .)	28 29 30
						29	5.55E+03(2 /2) (2.70E+03 - 8.40E+03)	
PASTURE (PCI/KG(WET))	GAMMA	BE-7	6	4.87E+02	1.81E+03 (4 /6) (6.80E+02 - 3.50E+03)		. (. /.) (. - .)	28 29 30
						28	2.30E+03(1 /2) (2.30E+03 - 2.30E+03)	
PASTURE (PCI/KG(WET))	GAMMA	ZR-95	6	6.67E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	NB-95	6	3.67E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	CE-141	6	7.00E+01	< LLD (0 /6)		. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	RU-103	6	4.67E+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		BACKROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
						STATION	STATION-MEAN(N/TOTAL) RANGE		
PASTURE (PCI/KG(WET))	GAMMA	BA-140	6	3.17E+02	< LLD	(0 /6)	(. - .)	(. /.)	28 29 30
						30	< LLD	(0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	LA-140	6	1.17E+02	< LLD	(0 /6)	(. - .)	(. /.)	28 29 30
						30	< LLD	(0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	RA-226	6	6.00E+02	< LLD	(0 /6)	(. - .)	(. /.)	28 29 30
						30	< LLD	(0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	TH-228	6	5.50E+01	< LLD	(0 /6)	(. - .)	(. /.)	28 29 30
						30	< LLD	(0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	I-131	6	2.67E+02	< LLD	(0 /6)	(. - .)	(. /.)	28 29 30
						30	< LLD	(0 /2)	
PASTURE (PCI/KG(WET))	GAMMA	RU-106	6	3.00E+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	STATION-MEAN(N/TOTAL) RANGE	BACKROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	CS-137	6	7.98E+01	3.11E+02 (5 /6) (4.60E+01 - 7.40E+02)			. (. /.) (. - .)	28 29 30
						28	5.10E+02(2 /2) (2.80E+02 - 7.40E+02)		
PASTURE (PCI/KG(WET))	STRONTIUM-89		6	3.83E+01	< LLD (0 /6)			. (. /.) (. - .)	28 29 30
						30	< LLD (0 /2)		
PASTURE (PCI/KG(WET))	STRONTIUM-90		6	1.19E+02	3.40E+02 (6 /6) (1.90E+01 - 7.00E+02)			. (. /.) (. - .)	28 29 30
						30	4.55E+02(2 /2) (2.10E+02 - 7.00E+02)		
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		16	4.19E+03	6.79E+03 (7 /14) (3.60E+03 - 9.50E+03)			5.60E+03(1 /2) (5.60E+03 - 5.60E+03)	23 24 25 26 27 32 33
						33	9.50E+03(1 /2) (9.50E+03 - 9.50E+03)		
SEDIMENT (PCI/KG(DRY))	GROSS BETA		16	1.99E+03	1.66E+04 (13 /14) (4.10E+03 - 3.20E+04)			2.50E+04(2 /2) (1.10E+04 - 3.90E+04)	23 24 25 26 27 32 33
						33	3.10E+04(2 /2) (3.00E+04 - 3.20E+04)		
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-144	40	1.99E+02	< 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	CS-134	40	4.15E+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	3.39E+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	3.01E+01	8.07E+01 (3 /34) (6.50E+01 - 9.50E+01)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	8.07E+01(3 /6) (6.50E+01 - 9.50E+01)	
SEDIMENT (PCI/KG(DRY))	GAMMA	FE-59	40	8.30E+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	6.30E+01	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-60	40	4.08E+01	4.24E+02 (15 /34) (2.00E+01 - 1.20E+03)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	7.64E+02(5 /6) (3.50E+02 - 1.20E+03)	

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SEDIMENT (PCI/KG(DRY))	GAMMA	K-40	40	8.74E+02	6.04E+03 (33 /34) (1.20E+01 - 1.70E+04)		1.05E+04(6 /6) (4.70E+03 - 1.40E+04)	23 24 25 26 27 32 33
						33	1.35E+04(6 /6) (1.10E+04 - 1.70E+04)	
SEDIMENT (PCI/KG(DRY))	GAMMA	BE-7	40	3.14E+02	3.04E+02 (5 /34) (2.20E+02 - 3.90E+02)		< LLD (0 /6)	23 24 25 26 27 32 33
						32	3.80E+02(1 /6) (3.80E+02 - 3.80E+02)	
SEDIMENT (PCI/KG(DRY))	GAMMA	ZR-95	40	7.32E+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	3.82E+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	7.96E+01	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-103	40	4.21E+01	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH NOVEMBER,1983
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
SEDIMENT (PCI/KG(DRY))	GAMMA	BA-140	40	3.48E+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	1.44E+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	5.01E+02	1.05E+03 (23 /34) (6.70E+01 - 2.60E+03)		1.32E+03(4 /6) (1.00E+03 - 1.50E+03)	23 24 25 26 27 32 33
						26	2.60E+03(1 /2) (2.60E+03 - 2.60E+03)	
SEDIMENT (PCI/KG(DRY))	GAMMA	TH-228	40	5.84E+01	4.85E+02 (34 /34) (6.70E+01 - 1.30E+03)		5.72E+02(6 /6) (3.20E+02 - 7.70E+02)	23 24 25 26 27 32 33
						33	8.28E+02(6 /6) (6.80E+02 - 9.80E+02)	
SEDIMENT (PCI/KG(DRY))	GAMMA	I-131	40	4.46E+02	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-106	40	2.43E+02	< LLD (0 /34)		< LLD (0 /6)	23 24 25 26 27 32 33
						33	< LLD (0 /6)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH NOVEMBER,1983
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
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-137	40	3.74E+01	2.19E+02 (21 /34) (2.70E+01 - 5.60E+02)		9.10E+01(1 /6) (9.10E+01 - 9.10E+01)	23 24 25 26 27 32 33
						27	4.35E+02(2 /2) (3.10E+02 - 5.60E+02)	
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		16	5.76E+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	2.76E+01	1.17E+01 (4 /14) (6.00E+00 - 2.00E+01)		< LLD (0 /2)	23 24 25 26 27 32 33
						32	2.00E+01(1 /2) (2.00E+01 - 2.00E+01)	

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH AUGUST,1983
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
VEGETATION (PCI/KG(WET))	GROSS BETA		15	3.61E+02	1.11E+04 (15 /15) (4.20E+03 - 2.70E+04)	. (. /.) (. - .)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		56	8.10E-04	2.21E-03 (24 /35) (1.10E-03 - 7.10E-03)	1.75E-03(17 /21) (7.70E-04 - 3.50E-03)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS BETA		56	2.94E-03	1.55E-02 (30 /35) (2.40E-03 - 3.10E-02)	1.47E-02(21 /21) (9.40E-03 - 1.90E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-144	56	5.39E+00	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-134	56	6.66E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-58	56	7.00E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	MN-54	56	5.98E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	FE-59	56	1.69E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZN-65	56	1.47E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-60	56	7.16E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH AUGUST,1983
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
AIR PARTICULATE (PCI/M3)	GAMMA	K-40	56	1.52E-01	1.55E-01 (2 /35) (8.00E-02 - 2.30E-01)	1.20E-01(1 /21) (1.20E-01 - 1.20E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BE-7	56	7.56E-02	1.18E-01 (12 /35) (4.90E-02 - 2.10E-01)	1.06E-01(12 /21) (8.00E-02 - 1.70E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZR-95	56	1.57E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	NB-95	56	7.62E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-141	56	1.43E+02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-103	56	8.05E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BA-140	56	4.95E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	LA-140	56	3.60E+00	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RA-226	56	1.44E+01	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	TH-228	56	1.01E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5

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RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH AUGUST,1983
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
AIR PARTICULATE (PCI/M3)	GAMMA	I-131	56	4.64E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-106	56	5.54E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-137	56	6.79E-03	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		8	1.27E-03	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-90		8	2.89E-04	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-SS		24	7.04E-01	1.07E+00 (9 /15) (7.10E-01 - 2.30E+00)	9.97E-01(3 /9) (8.90E-01 - 1.10E+00)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-DS		24	1.01E+00	5.13E+00 (15 /15) (1.90E+00 - 1.20E+01)	1.16E+01(9 /9) (3.50E+00 - 4.90E+01)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-144	24	3.01E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-134	24	4.94E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-58	24	5.11E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5

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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
PRECIPITATION (PCI/L)	GAMMA	MN-54	24	4.54E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	FE-59	24	9.03E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZN-65	24	7.90E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-60	24	4.69E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	K-40	24	8.01E+01	7.70E+01 (1 /15) (7.70E+01 - 7.70E+01)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	BE-7	24	4.39E+01	8.10E+01 (1 /15) (8.10E+01 - 8.10E+01)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZR-95	24	9.07E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	NB-95	24	5.57E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-141	24	1.05E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-103	24	6.50E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5

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RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH AUGUST,1983
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
PRECIPITATION (PCI/L)	GAMMA	BA-140	24	2.76E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	LA-140	24	1.12E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RA-226	24	7.68E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	TH-228	24	7.18E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	I-131	24	2.51E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-106	24	3.30E+01	< LLD (0 /15)	< LLD (0 /9)	I 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-137	24	5.28E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	TRITIUM		24	1.27E+02	2.62E+02 (13 /15) (1.70E+02 - 3.60E+02)	4.22E+02(9 /9) (2.01E+02 - 9.80E+02)	1 2 3 4 5
PRECIPITATION ( )	STRONTIUM-89		24	.	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION ( )	STRONTIUM-90		24	.	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5

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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
AIR IODINE (PCI/M3)	IODINE-131		56	2.36E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
CORN (PCI/KG(WET))	GAMMA	CE-144	3	6.67E+01	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	CS-134	3	9.00E+00	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	CO-58	3	1.00E+01	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	MN-54	3	8.67E+00	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	FE-59	3	3.00E+01	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	ZN-65	3	2.00E+01	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	CO-60	3	8.33E+00	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	K-40	3	3.00E+02	(. (. /.) - .)	2.60E+03(3 /3) (2.50E+03 - 2.70E+03)	
CORN (PCI/KG(WET))	GAMMA	BE-7	3	1.00E+02	(. (. /.) - .)	< LLD (0 /3)	

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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
CORN (PCI/KG(WET))	GAMMA	ZR-95	3	2.07E+01	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	NB-95	3	1.00E+01	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	CE-141	3	3.00E+01	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	RU-103	3	1.67E+01	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	BA-140	3	1.67E+02	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	LA-140	3	6.33E+01	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	RA-226	3	2.00E+02	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	TH-228	3	2.00E+01	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	I-131	3	2.67E+02	(. (. /.) - .)	< LLD (0 /3)	
CORN (PCI/KG(WET))	GAMMA	RU-106	3	8.00E+01	(. (. /.) - .)	< LLD (0 /3)	

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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
CORN (PCI/KG(WET))	GAMMA	CS-137	3	9.33E+00	(. - .) (. /.)	< LLD (0 /3)	
CUCUMBERS (PCI/KG(WET))	GAMMA	CE-144	2	5.00E+01	< LLD (0 /2)	(. - .) (. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	CS-134	2	6.50E+00	< LLD (0 /2)	(. - .) (. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	CO-58	2	8.50E+00	< LLD (0 /2)	(. - .) (. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	MN-54	2	7.00E+00	< LLD (0 /2)	(. - .) (. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	FE-59	2	2.00E+01	< LLD (0 /2)	(. - .) (. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	ZN-65	2	1.50E+01	< LLD (0 /2)	(. - .) (. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	CO-60	2	7.50E+00	< LLD (0 /2)	(. - .) (. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	K-40	2	2.50E+02	1.14E+03 (2 /2) (9.80E+02 - 1.30E+03)	(. - .) (. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	BE-7	2	8.50E+01	< LLD (0 /2)	(. - .) (. /.)	1 4

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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	ZR-95	2	2.00E+01	< LLD	(0 /2)	(. - .)	(. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	NB-95	2	9.50E+00	< LLD	(0 /2)	(. - .)	(. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	CE-141	2	2.00E+01	< LLD	(0 /2)	(. - .)	(. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	RU-103	2	1.00E+01	< LLD	(0 /2)	(. - .)	(. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	BA-140	2	9.00E+01	< LLD	(0 /2)	(. - .)	(. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	LA-140	2	3.50E+01	< LLD	(0 /2)	(. - .)	(. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	RA-226	2	1.00E+02	< LLD	(0 /2)	(. - .)	(. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	TH-228	2	1.00E+01	< LLD	(0 /2)	(. - .)	(. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	I-131	2	9.00E+01	< LLD	(0 /2)	(. - .)	(. /.)	1 4
CUCUMBERS (PCI/KG(WET))	GAMMA	RU-106	2	6.50E+01	< LLD	(0 /2)	(. - .)	(. /.)	1 4

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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	CS-137	2	9.00E+00	1.60E+01 (1 /2) (1.60E+01 - 1.60E+01)	. (. /.) (. - .)	1 4
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		24	3.55E-01	3.68E+00 (6 /21) (3.00E+00 - 4.20E+00)	4.10E+00(1 /3) (4.10E+00 - 4.10E+00)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		24	2.84E+01	2.12E+01 (6 /21) (9.70E-01 - 7.80E+01)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-SS		24	8.37E-01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-DS		24	3.56E+01	1.75E+02 (21 /21) (1.50E+00 - 3.70E+02)	2.73E+02(3 /3) (2.50E+02 - 3.20E+02)	23 24 25 26 27 32 33
SURFACE WATER (MG/L)	CALCIUM BY AA		24	1.00E+01	4.37E+02 (17 /21) (4.70E+00 - 1.10E+03)	8.03E+02(3 /3) (5.90E+02 - 1.20E+03)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CE-144	24	4.38E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CS-134	24	5.67E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CO-58	24	6.13E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	MN-54	24	5.33E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33

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
SURFACE WATER (PCI/L)	GAMMA	FE-59	24	1.40E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	ZN-65	24	1.07E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CO-60	24	5.29E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	K-40	24	1.28E+02	1.50E+02 (4 /21) (1.10E+02 - 1.90E+02)	2.30E+02(2 /3) (1.80E+02 - 2.80E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	BE-7	24	6.00E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	ZR-95	24	1.22E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	NB-95	24	7.96E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CE-141	24	1.45E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RU-103	24	7.67E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	BA-140	24	5.38E+01	< 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)	GAMMA	LA-140	24	2.15E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RA-226	24	1.15E+02	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	TH-228	24	9.21E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	I-131	24	6.67E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RU-106	24	4.92E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CS-137	24	5.75E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	TRITIUM		24	1.08E+02	1.97E+02 (17 /21) (7.00E+01 - 7.60E+02)	2.33E+02(3 /3) (1.10E+02 - 4.70E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-226		24	1.67E-01	4.08E-01 (6 /21) (2.20E-01 - 7.10E-01)	2.80E-01(2 /3) (2.70E-01 - 2.90E-01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-228		24	5.08E-01	1.30E+00 (5 /21) (3.00E-01 - 5.00E+00)	5.50E-01(1 /3) (5.50E-01 - 5.50E-01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-89		24	1.88E+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	6.62E-01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	U-234		24	1.04E+00	2.40E+00 (15 /21) (1.60E-01 - 1.40E+01)	2.13E+01(2 /3) (1.70E+00 - 4.10E+01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	U-235		24	9.10E-01	1.37E+00 (2 /21) (7.40E-01 - 2.00E+00)	3.00E+00(1 /3) (3.00E+00 - 3.00E+00)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	U-238		24	1.17E+00	1.25E+01 (10 /21) (3.20E-01 - 1.00E+02)	1.28E+00(2 /3) (6.70E-01 - 1.90E+00)	23 24 25 26 27 32 33
TOMATOES (PCI/KG(WET))	GAMMA	CE-144	7	7.29E+01	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	CS-134	7	9.57E+00	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	CO-58	7	1.04E+01	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	MN-54	7	9.43E+00	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	FE-59	7	3.00E+01	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	ZN-65	7	2.29E+01	< LLD (0 /4)	< LLD (0 /3)	1 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
TOMATOES (PCI/KG(WET))	GAMMA	CO-60	7	9.57E+00	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	K-40	7	3.71E+02	2.17E+03 (4 /4) (1.80E+03 - 2.50E+03)	2.50E+03(3 /3) (2.10E+03 - 2.80E+03)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	BE-7	7	1.06E+02	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	ZR-95	7	2.71E+01	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	NB-95	7	1.37E+01	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	CE-141	7	3.29E+01	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	RU-103	7	1.57E+01	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	BA-140	7	1.54E+02	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	LA-140	7	5.57E+01	< LLD (0 /4)	< LLD (0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	RA-226	7	1.86E+02	< LLD (0 /4)	< LLD (0 /3)	1 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
TOMATOES (PCI/KG(WET))	GAMMA	TH-228	7	1.71E+01	< LLD	(0 /4)	< LLD	(0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	I-131	7	2.00E+02	< LLD	(0 /4)	< LLD	(0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	RU-106	7	8.86E+01	< LLD	(0 /4)	< LLD	(0 /3)	1 3 4 5
TOMATOES (PCI/KG(WET))	GAMMA	CS-137	7	9.86E+00	< LLD	(0 /4)	< LLD	(0 /3)	1 3 4 5
BROCCOLI (PCI/KG(WET))	GAMMA	CE-144	2	7.50E+01	< LLD	(0 /2)	(. - .)	(. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	CS-134	2	1.00E+01	< LLD	(0 /2)	(. - .)	(. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	CO-58	2	1.00E+01	< LLD	(0 /2)	(. - .)	(. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	MN-54	2	1.00E+01	< LLD	(0 /2)	(. - .)	(. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	FE-59	2	3.50E+01	< LLD	(0 /2)	(. - .)	(. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	ZN-65	2	2.50E+01	< LLD	(0 /2)	(. - .)	(. /.)	3 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
BROCCOLI (PCI/KG(WET))	GAMMA	CO-60	2	1.00E+01	< LLD (0 /2)	(. - .) (. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	K-40	2	4.50E+02	4.80E+03 (2 /2) (4.10E+03 - 5.50E+03)	(. - .) (. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	BE-7	2	1.50E+02	< LLD (0 /2)	(. - .) (. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	ZR-95	2	3.00E+01	< LLD (0 /2)	(. - .) (. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	NB-95	2	1.50E+01	< LLD (0 /2)	(. - .) (. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	CE-141	2	3.00E+01	< LLD (0 /2)	(. - .) (. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	RU-103	2	2.00E+01	< LLD (0 /2)	(. - .) (. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	BA-140	2	2.00E+02	< LLD (0 /2)	(. - .) (. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	LA-140	2	6.00E+01	< LLD (0 /2)	(. - .) (. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	RA-226	2	2.00E+02	< LLD (0 /2)	(. - .) (. /.)	3 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
BROCCOLI (PCI/KG(WET))	GAMMA	TH-228	2	2.00E+01	< LLD (0 /2)	(. - .) (. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	I-131	2	2.00E+02	< LLD (0 /2)	(. - .) (. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	RU-106	2	9.50E+01	< LLD (0 /2)	(. - .) (. /.)	3 5
BROCCOLI (PCI/KG(WET))	GAMMA	CS-137	2	2.00E+01	5.90E+01 (2 /2) (5.50E+01 - 6.30E+01)	(. - .) (. /.)	3 5
WELL WATER (PCI/L)	GROSS ALPHA-SS		18	4.72E-01	< LLD (0 /18)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS ALPHA-DS		18	7.83E-01	1.66E+00 (7 /18) (8.20E-01 - 2.90E+00)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-SS		18	8.31E-01	9.40E-01 (1 /18) (9.40E-01 - 9.40E-01)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-DS		18	1.06E+00	3.26E+00 (17 /18) (1.10E-01 - 5.30E+00)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	POTASSIUM-40		6	2.00E-01	1.95E+00 (6 /6) (9.10E-01 - 2.50E+00)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CE-144	6	3.67E+01	< LLD (0 /6)	(. - .) (. /.)	1 18 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	CS-134	6	4.50E+00	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-58	6	4.67E+00	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	MN-54	6	3.83E+00	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	FE-59	6	9.50E+00	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZN-65	6	8.33E+00	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-60	6	4.00E+00	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	K-40	6	9.50E+01	1.10E+02 (1 /6) (1.10E+02 - 1.10E+02)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	BE-7	6	4.83E+01	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZR-95	6	9.33E+00	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	NB-95	6	5.17E+00	< LLD (0 /6)	(. - . (. /.))	1 18 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	CE-141	6	1.32E+01	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-103	6	6.50E+00	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	BA-140	6	4.83E+01	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	LA-140	6	2.00E+01	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RA-226	6	8.33E+01	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	TH-228	6	8.50E+00	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	I-131	6	5.33E+01	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-106	6	3.83E+01	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-137	6	4.50E+00	< LLD (0 /6)	(. - . (. /.))	1 18 19 20 21 22
WELL WATER (PCI/L)	TRITIUM		6	1.17E+02	5.77E+02 (3 /6) (1.00E+02 - 1.20E+03)	(. - . (. /.))	1 18 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)	RADIUM-226		6	1.90E-01	4.20E-01 (1 /6) (4.20E-01 - 4.20E-01)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		6	6.98E-01	< LLD (0 /6)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	U-234		6	1.54E-01	9.89E+00 (6 /6) (3.50E-01 - 5.20E+01)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	U-235		6	5.90E-01	1.63E+00 (6 /6) (5.10E-01 - 5.00E+00)	(. - .) (. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	U-238		6	3.38E-01	7.73E-01 (6 /6) (2.60E-01 - 3.00E+00)	(. - .) (. /.)	1 18 19 20 21 22
CLAMS (PCI/KG(WET))	GROSS ALPHA		12	8.67E+02	6.70E+01 (1 /9) (6.70E+01 - 6.70E+01)	4.20E+01(1 /3) (4.20E+01 - 4.20E+01)	23 24 25
CLAMS (PCI/KG(WET))	GROSS BETA		12	3.58E+02	1.41E+04 (9 /9) (2.00E+03 - 5.00E+04)	1.38E+04(3 /3) (2.10E+03 - 3.60E+04)	23 24 25
CLAMS (MG/GM(WET))	CALCIUM BY AA		4	1.00E-01	4.90E-01 (3 /3) (3.80E-01 - 6.40E-01)	3.40E-01(1 /1) (3.40E-01 - 3.40E-01)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-144	4	5.75E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-134	4	1.00E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25

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CLAMS (PCI/KG(WET))	GAMMA	CO-58	4	1.02E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	MN-54	4	1.00E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	FE-59	4	2.50E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZN-65	4	2.00E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-60	4	1.38E+01	4.97E+01 (3 /3) (1.90E+01 - 1.10E+02)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	K-40	4	3.25E+02	2.39E+03 (3 /3) (6.80E+02 - 5.40E+03)	1.10E+03(1 /1) (1.10E+03 - 1.10E+03)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BE-7	4	1.00E+02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZR-95	4	2.25E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	NB-95	4	1.05E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-141	4	2.00E+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	RU-103	4	1.38E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BA-140	4	5.75E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	LA-140	4	2.50E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RA-226	4	1.75E+02	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	TH-228	4	1.50E+01	1.50E+02 (1 /3) (1.50E+02 - 1.50E+02)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	I-131	4	4.50E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-106	4	9.50E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-137	4	1.02E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-89		4	4.50E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-90		4	2.50E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH AUGUST,1983
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))	GROSS BETA		15	1.63E+03	6.02E+03 (15 /15) (1.20E+03 - 1.20E+04)	(. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-144	5	2.00E+02	< LLD (0 /5)	(. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-134	5	3.40E+01	< LLD (0 /5)	(. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-58	5	4.20E+01	< LLD (0 /5)	(. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	MN-54	5	3.40E+01	< LLD (0 /5)	(. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	FE-59	5	1.08E+02	< LLD (0 /5)	(. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZN-65	5	7.40E+01	< LLD (0 /5)	(. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-60	5	3.40E+01	< LLD (0 /5)	(. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	K-40	5	8.00E+02	2.13E+03 (3 /5) (1.30E+03 - 3.40E+03)	(. - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BE-7	5	4.40E+02	< LLD (0 /5)	(. - .)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH AUGUST,1983
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	ZR-95	5	6.82E+01	< LLD (0 /5)	(. - .) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	NB-95	5	4.80E+01	< LLD (0 /5)	(. - .) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-141	5	8.60E+01	< LLD (0 /5)	(. - .) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-103	5	5.80E+01	< LLD (0 /5)	(. - .) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BA-140	5	6.00E+02	< LLD (0 /5)	(. - .) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	LA-140	5	2.60E+02	< LLD (0 /5)	(. - .) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RA-226	5	4.80E+02	6.30E+02 (1 /5) (6.30E+02 - 6.30E+02)	(. - .) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	TH-228	5	6.40E+01	3.77E+02 (3 /5) (1.80E+02 - 5.00E+02)	(. - .) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	I-131	5	9.60E+02	< LLD (0 /5)	(. - .) (. /.)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-106	5	3.00E+02	< LLD (0 /5)	(. - .) (. /.)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH AUGUST,1983
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	CS-137	5	8.00E+01	9.11E+02 (4 /5) (6.40E+01 - 2.90E+03)	(. - .) (. /.)	1 2 3 4 5
PASTURE (PCI/KG(WET))	GROSS BETA		3	4.33E+01	1.23E+04 (3 /3) (8.80E+03 - 1.80E+04)	(. - .) (. /.)	28 29 30
PASTURE (MG/GM(WET))	CALCIUM BY AA		3	1.00E-01	4.73E-01 (3 /3) (3.30E-01 - 6.10E-01)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-144	3	3.00E+02	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CS-134	3	4.00E+01	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-58	3	4.33E+01	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	MN-54	3	4.00E+01	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	FE-59	3	9.67E+01	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZN-65	3	8.00E+01	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-60	3	4.00E+01	< LLD (0 /3)	(. - .) (. /.)	28 29 30

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH AUGUST,1983
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	K-40	3	1.67E+03	6.50E+03 (3 /3) (4.50E+03 - 8.40E+03)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BE-7	3	5.67E+02	6.80E+02 (1 /3) (6.80E+02 - 6.80E+02)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZR-95	3	9.00E+01	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	NB-95	3	5.00E+01	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-141	3	9.33E+01	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-103	3	6.33E+01	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BA-140	3	4.33E+02	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	LA-140	3	1.67E+02	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RA-226	3	8.00E+02	< LLD (0 /3)	(. - .) (. /.)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	TH-228	3	7.33E+01	< LLD (0 /3)	(. - .) (. /.)	28 29 30

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH AUGUST,1983
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	I-131	3	4.00E+02	< LLD (0 /3) (. - .)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-106	3	4.00E+02	< LLD (0 /3) (. - .)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CS-137	3	1.10E+02	2.35E+02 (2 /3) (1.90E+02 - 2.80E+02)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-89		3	2.67E+01	< LLD (0 /3) (. - .)	. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-90		3	2.67E+00	1.53E+02 (3 /3) (1.90E+01 - 2.30E+02)	. (. /.) (. - .)	28 29 30
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		8	4.00E+03	7.14E+03 (5 /7) (3.60E+03 - 9.50E+03)	< LLD (0 /1)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GROSS BETA		8	2.00E+03	1.53E+04 (6 /7) (4.80E+03 - 3.20E+04)	1.10E+04(1 /1) (1.10E+04 - 1.10E+04)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-144	20	2.02E+02	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-134	20	5.50E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-58	20	3.80E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH AUGUST,1983
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	MN-54	20	3.40E+01	8.20E+01 (1 /17) (8.20E+01 - 8.20E+01)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	FE-59	20	9.60E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	ZN-65	20	6.85E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-60	20	4.20E+01	5.25E+02 (8 /17) (4.00E+01 - 1.20E+03)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	K-40	20	9.20E+02	6.28E+03 (16 /17) (1.20E+01 - 1.70E+04)	8.67E+03(3 /3) (4.70E+03 - 1.40E+04)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	BE-7	20	3.50E+02	2.85E+02 (4 /17) (2.20E+02 - 3.90E+02)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	ZR-95	20	8.00E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	NB-95	20	4.30E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-141	20	8.30E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-103	20	4.85E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
JUNE,1983 THROUGH AUGUST,1983
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	BA-140	20	4.25E+02	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	LA-140	20	1.81E+02	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RA-226	20	4.95E+02	9.27E+02 (9 /17) (6.70E+01 - 2.10E+03)	1.40E+03(1 /3) (1.40E+03 - 1.40E+03)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	TH-228	20	5.35E+01	5.11E+02 (17 /17) (6.70E+01 - 9.80E+02)	4.37E+02(3 /3) (3.20E+02 - 5.20E+02)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	I-131	20	5.45E+02	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-106	20	2.80E+02	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-137	20	3.95E+01	2.39E+02 (10 /17) (3.00E+01 - 5.60E+02)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		8	1.52E+01	< LLD (0 /7)	< LLD (0 /1)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		8	5.25E+00	1.17E+01 (4 /7) (6.00E+00 - 2.00E+01)	< LLD (0 /1)	23 24 25 26 27 32 33

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
SEPTEMBER,1983 THROUGH NOVEMBER,1983
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	1.57E+01	3.66E+03 (15 /15) (2.50E+03 - 5.30E+03)	. (. /.) (. - .)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		48	1.19E-03	1.60E-03 (17 /30) (8.30E-04 - 2.50E-03)	1.56E-03(13 /18) (1.00E-03 - 2.20E-03)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS BETA		48	2.21E-03	1.77E-02 (30 /30) (9.40E-03 - 3.00E-02)	1.77E-02(18 /18) (9.00E-03 - 3.00E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-144	48	3.35E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-134	48	6.05E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-58	48	6.26E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	MN-54	48	5.78E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	FE-59	48	1.55E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZN-65	48	1.30E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-60	48	6.85E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
SEPTEMBER,1983 THROUGH NOVEMBER,1983
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	47	1.82E-01	1.80E-01 (1 /30) (1.80E-01 - 1.80E-01)	< LLD (0 /17)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BE-7	48	7.38E-02	1.06E-01 (11 /30) (6.90E-02 - 1.70E-01)	1.16E-01(8 /18) (7.40E-02 - 1.80E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZR-95	48	1.34E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	NB-95	48	6.64E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-141	48	1.18E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-103	48	7.60E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BA-140	48	4.40E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	LA-140	48	2.20E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RA-226	48	1.04E-01	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	TH-228	48	1.03E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
SEPTEMBER,1983 THROUGH NOVEMBER,1983
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	I-131	48	3.82E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-106	48	5.33E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-137	48	6.40E-03	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-SS		24	5.89E-01	8.00E-01 (2 /15) (4.00E-01 - 1.20E+00)	8.85E-01(2 /9) (4.70E-01 - 1.30E+00)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-DS		24	1.30E+00	4.98E+00 (15 /15) (1.50E+00 - 1.40E+01)	3.62E+00(9 /9) (1.00E+00 - 6.30E+00)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-144	24	4.02E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-134	24	5.05E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-58	24	4.91E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	MN-54	24	4.60E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	FE-59	24	1.07E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
SEPTEMBER,1983 THROUGH NOVEMBER,1983
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
PRECIPITATION (PCI/L)	GAMMA	ZN-65	24	9.56E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-60	24	4.93E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	K-40	24	8.29E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	BE-7	24	5.17E+01	1.73E+02 (3 /15) (6.80E+01 - 2.90E+02)	7.27E+01(3 /9) (5.30E+01 - 1.00E+02)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZR-95	24	1.09E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	NB-95	24	5.18E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-141	24	1.18E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-103	24	5.94E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	BA-140	24	2.73E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	LA-140	24	1.09E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5

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
PRECIPITATION (PCI/L)	GAMMA	RA-226	24	1.10E+02	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	TH-228	24	1.00E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	I-131	24	2.07E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-106	24	4.02E+01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-137	24	6.95E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION (PCI/L)	TRITIUM		24	1.70E+02	2.33E+02 (13 /15) (6.75E+01 - 8.80E+02)	2.68E+02(5 /9) (1.01E+02 - 6.20E+02)	1 2 3 4 5
PRECIPITATION ( )	STRONTIUM-89		24	2.92E+00	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
PRECIPITATION ( )	STRONTIUM-90		24	5.91E-01	< LLD (0 /15)	< LLD (0 /9)	1 2 3 4 5
AIR IODINE (PCI/M3)	IODINE-131		48	2.54E-02	< LLD (0 /30)	< LLD (0 /18)	1 2 3 4 5
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		24	5.35E-01	< 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)	GROSS ALPHA-DS		24	5.73E+01	1.65E+00 (2 /21) (1.60E+00 - 1.70E+00)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-SS		24	8.98E-01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GROSS BETA-DS		24	3.88E+01	2.61E+02 (21 /21) (1.20E+00 - 4.70E+02)	4.03E+02(3 /3) (3.90E+02 - 4.10E+02)	23 24 25 26 27 32 33
SURFACE WATER (MG/L)	CALCIUM BY AA		24	1.00E+01	3.34E+02 (18 /21) (1.18E+01 - 6.40E+02)	4.37E+02(3 /3) (3.90E+02 - 5.10E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CE-144	24	3.32E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CS-134	24	6.17E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CO-58	24	4.67E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	MN-54	24	4.10E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	FE-59	24	1.01E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	ZN-65	24	8.59E+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)	GAMMA	CO-60	24	4.24E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	K-40	24	1.02E+02	1.73E+02 (12 /21) (9.20E+01 - 2.50E+02)	3.30E+02(2 /3) (2.80E+02 - 3.80E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	BE-7	24	4.45E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	ZR-95	24	9.38E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	NB-95	24	4.84E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CE-141	24	1.01E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RU-103	24	5.67E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	BA-140	24	2.77E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	LA-140	24	1.07E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RA-226	24	9.09E+01	< 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)	GAMMA	TH-228	24	8.57E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	I-131	24	2.28E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	RU-106	24	3.83E+01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	GAMMA	CS-137	24	4.86E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	TRITIUM		24	1.13E+02	2.57E+02 (12 /21) (8.30E+01 - 9.90E+02)	6.00E+02(1 /3) (6.00E+02 - 6.00E+02)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-226		24	2.52E-01	1.33E+00 (7 /21) (3.52E-01 - 2.43E+00)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	RADIUM-228		24	2.47E-01	4.99E-01 (14 /21) (1.93E-01 - 9.20E-01)	5.65E-01(2 /3) (2.91E-01 - 8.40E-01)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-89		24	1.03E+00	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	STRONTIUM-90		24	6.14E-01	< LLD (0 /21)	< LLD (0 /3)	23 24 25 26 27 32 33
SURFACE WATER (PCI/L)	TOTAL URANIUM		24	5.00E-02	6.06E+00 (21 /21) (2.30E-01 - 1.00E+02)	2.06E+00(3 /3) (1.97E+00 - 2.20E+00)	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
WELL WATER (PCI/L)	GROSS ALPHA-SS		18	4.22E-01	< LLD (0 /18)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS ALPHA-DS		18	9.20E-01	1.95E+00 (10 /18) (9.80E-01 - 4.30E+00)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-SS		18	9.13E-01	< LLD (0 /18)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-DS		18	1.09E+00	3.31E+00 (18 /18) (1.00E+00 - 6.80E+00)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	POTASSIUM-40		6	2.00E-01	1.98E+00 (6 /6) (1.00E+00 - 2.50E+00)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CE-144	6	3.67E+01	< LLD (0 /6)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-134	6	5.00E+00	< LLD (0 /6)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-58	6	4.83E+00	< LLD (0 /6)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	MN-54	6	4.67E+00	< LLD (0 /6)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	FE-59	6	1.05E+01	< LLD (0 /6)	. (. /.) (. - .)	1 18 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	ZN-65	6	1.02E+01	< LLD	(0 /6)	(. - .)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-60	6	5.00E+00	< LLD	(0 /6)	(. - .)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	K-40	6	9.00E+01	< LLD	(0 /6)	(. - .)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	BE-7	6	4.50E+01	< LLD	(0 /6)	(. - .)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZR-95	6	9.00E+00	< LLD	(0 /6)	(. - .)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	NB-95	6	5.00E+00	< LLD	(0 /6)	(. - .)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CE-141	6	9.33E+00	< LLD	(0 /6)	(. - .)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-103	6	5.83E+00	< LLD	(0 /6)	(. - .)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	BA-140	6	2.50E+01	< LLD	(0 /6)	(. - .)	(. /.)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	LA-140	6	8.17E+00	< LLD	(0 /6)	(. - .)	(. /.)	1 18 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	RA-226	6	9.50E+01	< LLD (0 /6)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	TH-228	6	9.33E+00	< LLD (0 /6)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	I-131	6	1.48E+01	< LLD (0 /6)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-106	6	3.90E+01	< LLD (0 /6)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-137	6	5.17E+00	< LLD (0 /6)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	TRITIUM		6	1.23E+02	1.20E+02 (1 /6) (1.20E+02 - 1.20E+02)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226		6	4.73E-01	1.81E+00 (3 /6) (9.20E-01 - 2.47E+00)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		6	3.67E-01	6.30E-01 (3 /6) (3.20E-01 - 1.06E+00)	. (. /.) (. - .)	1 18 19 20 21 22
WELL WATER (PCI/L)	TOTAL URANIUM		6	3.40E-02	5.89E-01 (6 /6) (8.16E-02 - 1.70E+00)	. (. /.) (. - .)	1 18 19 20 21 22
CLAMS (PCI/KG(WET))	GROSS ALPHA		12	4.21E+01	1.20E+02 (9 /9) (4.70E+01 - 2.30E+02)	8.55E+01(2 /3) (5.10E+01 - 1.20E+02)	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))	GROSS BETA		12	6.85E+01	2.46E+03 (9 /9) (1.70E+03 - 3.60E+03)	2.10E+03(3 /3) (1.80E+03 - 2.50E+03)	23 24 25
CLAMS (MG/GM(WET))	CALCIUM BY AA		4	1.00E-01	7.23E-01 (3 /3) (5.40E-01 - 9.50E-01)	5.00E-01(1 /1) (5.00E-01 - 5.00E-01)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-144	4	6.75E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-134	4	8.25E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-58	4	8.00E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	MN-54	4	7.75E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	FE-59	4	2.25E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZN-65	4	1.50E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-60	4	1.13E+01	1.93E+01 (3 /3) (1.50E+01 - 2.70E+01)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	K-40	4	2.50E+02	1.07E+03 (3 /3) (1.00E+03 - 1.20E+03)	8.80E+02(1 /1) (8.80E+02 - 8.80E+02)	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	BE-7	4	7.75E+01	< LLD	(0 /3)	< LLD	(0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZR-95	4	2.25E+01	< LLD	(0 /3)	< LLD	(0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	NB-95	4	9.00E+00	< LLD	(0 /3)	< LLD	(0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-141	4	2.25E+01	< LLD	(0 /3)	< LLD	(0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-103	4	9.25E+00	< LLD	(0 /3)	< LLD	(0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BA-140	4	5.25E+01	< LLD	(0 /3)	< LLD	(0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	LA-140	4	2.25E+01	< LLD	(0 /3)	< LLD	(0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RA-226	4	1.75E+02	< LLD	(0 /3)	< LLD	(0 /1)	23 24 25
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	4.25E+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	RU-106	4	7.00E+01	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-137	4	9.00E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-89		4	8.75E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-90		4	4.00E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
SOIL (PCI/KG(DRY))	GROSS BETA		15	2.24E+03	7.71E+03 (15 /15) (3.10E+03 - 1.40E+04)	(. (. /.) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-144	5	1.34E+02	< LLD (0 /5)	(. (. /.) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-134	5	2.00E+01	< LLD (0 /5)	(. (. /.) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-58	5	2.20E+01	< LLD (0 /5)	(. (. /.) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	MN-54	5	1.60E+01	< LLD (0 /5)	(. (. /.) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	FE-59	5	5.20E+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	ZN-65	5	4.00E+01	< LLD (0 /5)	(. (. /.))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-60	5	1.58E+01	< LLD (0 /5)	(. (. /.))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	K-40	5	4.40E+02	1.27E+03 (5 /5) (9.30E+02 - 1.80E+03)	(. (. /.))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BE-7	5	2.80E+02	< LLD (0 /5)	(. (. /.))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZR-95	5	5.40E+01	< LLD (0 /5)	(. (. /.))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	NB-95	5	2.80E+01	< LLD (0 /5)	(. (. /.))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-141	5	5.80E+01	< LLD (0 /5)	(. (. /.))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-103	5	3.20E+01	< LLD (0 /5)	(. (. /.))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BA-140	5	3.00E+02	< LLD (0 /5)	(. (. /.))	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	LA-140	5	1.10E+02	< LLD (0 /5)	(. (. /.))	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
SEPTEMBER,1983 THROUGH NOVEMBER,1983
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
SOIL (PCI/KG(DRY))	GAMMA	RA-226	5	4.20E+02	1.01E+03 (4 /5) (6.40E+02 - 2.00E+03)	(. (. /.) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	TH-228	5	5.20E+01	4.32E+02 (5 /5) (2.40E+02 - 8.80E+02)	(. (. /.) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	I-131	5	4.00E+02	< LLD (0 /5)	(. (. /.) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-106	5	1.58E+02	< LLD (0 /5)	(. (. /.) - .)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-137	5	6.00E+01	9.76E+02 (5 /5) (3.20E+01 - 2.30E+03)	(. (. /.) - .)	1 2 3 4 5
PASTURE (PCI/KG(WET))	GROSS BETA		3	5.53E+01	9.53E+03 (3 /3) (6.40E+03 - 1.40E+04)	(. (. /.) - .)	28 29 30
PASTURE (MG/GM(WET))	CALCIUM BY AA		3	2.00E-02	1.62E+00 (3 /3) (7.60E-01 - 2.40E+00)	(. (. /.) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-144	3	1.27E+02	< LLD (0 /3)	(. (. /.) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CS-134	3	2.00E+01	< LLD (0 /3)	(. (. /.) - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-58	3	2.00E+01	< LLD (0 /3)	(. (. /.) - .)	28 29 30

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
SEPTEMBER,1983 THROUGH NOVEMBER,1983
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
PASTURE (PCI/KG(WET))	GAMMA	MN-54	3	2.00E+01	< LLD (0 /3) (. - .)	(. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	FE-59	3	5.00E+01	< LLD (0 /3) (. - .)	(. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZN-65	3	4.33E+01	< LLD (0 /3) (. - .)	(. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-60	3	2.00E+01	< LLD (0 /3) (. - .)	(. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	K-40	3	5.60E+02	3.23E+03 (3 /3) (2.60E+03 - 4.40E+03)	(. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BE-7	3	4.07E+02	2.19E+03 (3 /3) (7.60E+02 - 3.50E+03)	(. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZR-95	3	4.33E+01	< LLD (0 /3) (. - .)	(. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	NB-95	3	2.33E+01	< LLD (0 /3) (. - .)	(. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-141	3	4.67E+01	< LLD (0 /3) (. - .)	(. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-103	3	3.00E+01	< LLD (0 /3) (. - .)	(. /.) (. - .)	28 29 30

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
SEPTEMBER,1983 THROUGH NOVEMBER,1983
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
PASTURE (PCI/KG(WET))	GAMMA	BA-140	3	2.00E+02	< LLD (0 /3)	(. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	LA-140	3	6.67E+01	< LLD (0 /3)	(. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RA-226	3	4.00E+02	< LLD (0 /3)	(. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	TH-228	3	3.67E+01	< LLD (0 /3)	(. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	I-131	3	1.33E+02	< LLD (0 /3)	(. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-106	3	2.00E+02	< LLD (0 /3)	(. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CS-137	3	4.97E+01	3.62E+02 (3 /3) (4.60E+01 - 7.40E+02)	(. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-89		3	5.00E+01	< LLD (0 /3)	(. (. /.) (. - .)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-90		3	2.36E+02	5.27E+02 (3 /3) (4.40E+02 - 7.00E+02)	(. (. /.) (. - .)	28 29 30
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		8	4.39E+03	5.90E+03 (2 /7) (5.60E+03 - 6.20E+03)	5.60E+03(1 /1) (5.60E+03 - 5.60E+03)	23 24 25 26 27 32 33

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
SEPTEMBER,1983 THROUGH NOVEMBER,1983
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
SEDIMENT (PCI/KG(DRY))	GROSS BETA		8	1.97E+03	1.78E+04 (7 /7) (4.10E+03 - 3.00E+04)	3.90E+04(1 /1) (3.90E+04 - 3.90E+04)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-144	20	1.95E+02	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-134	20	2.80E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-58	20	2.97E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	MN-54	20	2.63E+01	8.00E+01 (2 /17) (6.50E+01 - 9.50E+01)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	FE-59	20	7.00E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	ZN-65	20	5.74E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-60	20	3.96E+01	3.07E+02 (7 /17) (2.00E+01 - 1.10E+03)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	K-40	20	8.28E+02	5.82E+03 (17 /17) (9.10E+02 - 1.40E+04)	1.23E+04(3 /3) (1.10E+04 - 1.40E+04)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	BE-7	20	2.78E+02	3.80E+02 (1 /17) (3.80E+02 - 3.80E+02)	< LLD (0 /3)	23 24 25 26 27 32 33

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
SEPTEMBER,1983 THROUGH NOVEMBER,1983
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
SEDIMENT (PCI/KG(DRY))	GAMMA	ZR-95	20	6.64E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	NB-95	20	3.34E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-141	20	7.63E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-103	20	3.57E+01	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	BA-140	20	2.71E+02	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	LA-140	20	1.06E+02	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RA-226	20	5.07E+02	1.13E+03 (14 /17) (5.60E+02 - 2.60E+03)	1.30E+03(3 /3) (1.00E+03 - 1.50E+03)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	TH-228	20	6.32E+01	4.60E+02 (17 /17) (1.30E+02 - 1.30E+03)	7.07E+02(3 /3) (6.50E+02 - 7.70E+02)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	I-131	20	3.47E+02	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-106	20	2.06E+02	< LLD (0 /17)	< LLD (0 /3)	23 24 25 26 27 32 33

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
SEPTEMBER,1983 THROUGH NOVEMBER,1983
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
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-137	20	3.53E+01	2.01E+02 (11 /17) (2.70E+01 - 4.00E+02)	9.10E+01(1 /3) (9.10E+01 - 9.10E+01)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		8	1.00E+02	< LLD (0 /7)	< LLD (0 /1)	23 24 25 26 27 32 33
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		8	5.00E+01	< LLD (0 /7)	< LLD (0 /1)	23 24 25 26 27 32 33

ANALYSIS OF DATA

Oyster Creek was shut down during all of the 1983-2 reporting period. Even though minute quantities of nuclides were released via the stack (Table 1B), calculations show that levels of these nuclides in the environment would be far too small to be detected. All activity in liquid releases was below the lower limit of detection, with the exception of Co-60 and H-3. The amounts of Co-60 and H-3 released were so minimal that detection of it in environmental media would be impossible after dilution from Oyster Creek's discharge canal. Radioactivity in the environment for the current reporting period can safely be assumed to have its origin in sources other than releases from Oyster Creek during the 1983-2 reporting period. With this disclaimer in mind, the following is a discussion of environmental media whose activity was found to be somewhat higher than what was normally expected.

Seasonal fluctuations in naturally-occurring nuclides such as Ra-226 and K-40 were evident (Tables 14, 15, 16) and are not considered to be abnormal or facility-related. Fluctuations were observed at background as well as indicator stations. One nuclide in particular, Be-7, was detected frequently in sediment and pasture samples. This nuclide is of cosmic origin and its presence in environmental media for all practical purposes, can be considered to be due to natural processes.

The remainder of activity in environmental media which was above what was normally expected can be attributed to nuclear weapons testing, in conjunction with atmospheric turn-over. Fluctuations in gross beta activity in air particulate (figure 7) were evident during the reporting

period. On the average, activity was higher at background stations than at indicator, further implying elevated activity due to sources other than facility operations. Nuclides associated with weapons testing; namely, Cs-137, Sr-90, and H-3, were detected in several environmental media. Soil, pasture, and broccoli all showed the presence of Cs-137. Pasture and sediment exhibited elevated levels of Sr-90.

Tritium levels in precipitation, particularly at background stations, are believed to be elevated due to the large amount of rainfall during the summer months (Figures 4 and 8). While no apparent relationship exists between total volume of rain that fell and tritium activity (Figure 8), it is thought that rainfall intensity does play some role. While it was not measured at each station during the reporting period, rainfall intensity was noted to have occurred (refer to Section II). Elevated tritium levels are to be expected during periods of intense rainfall, its presence being due to a combination of weapons testing and cosmogenesis. Since the average residence time of tritium in the atmosphere is 1.6 years (Choppin and Rydberg, 1980), it is expected that elevated levels of tritium will be seen in future reports. In fact, according to Choppin and Rydberg "...it will take approximately one hundred years of no further atmospheric testing of hydrogen bombs before the tritium content in nature is reduced again to its normal pretesting level."

Finally, nuclides attributable to facility operations and previously documented in semiannual reports were detected in sediment and clam

samples. Co-60 and Mn-54 were detected in these media within the environs of the discharge canal.

It should be noted that one result of analysis of tritium in well water was initially reported as being 1200 pCi/l (table 14). Re-analysis of this sample twice proved that the initial result was due to a laboratory error and that both re-analyses exhibited activity below the lower limit of detection.

In summary, levels of radioactivity in environmental media for the 1983-2 reporting period were at or below detectable limits except in the cases noted above. No releases from the facility during the reporting period were detected in the environment.

FIGURE 7

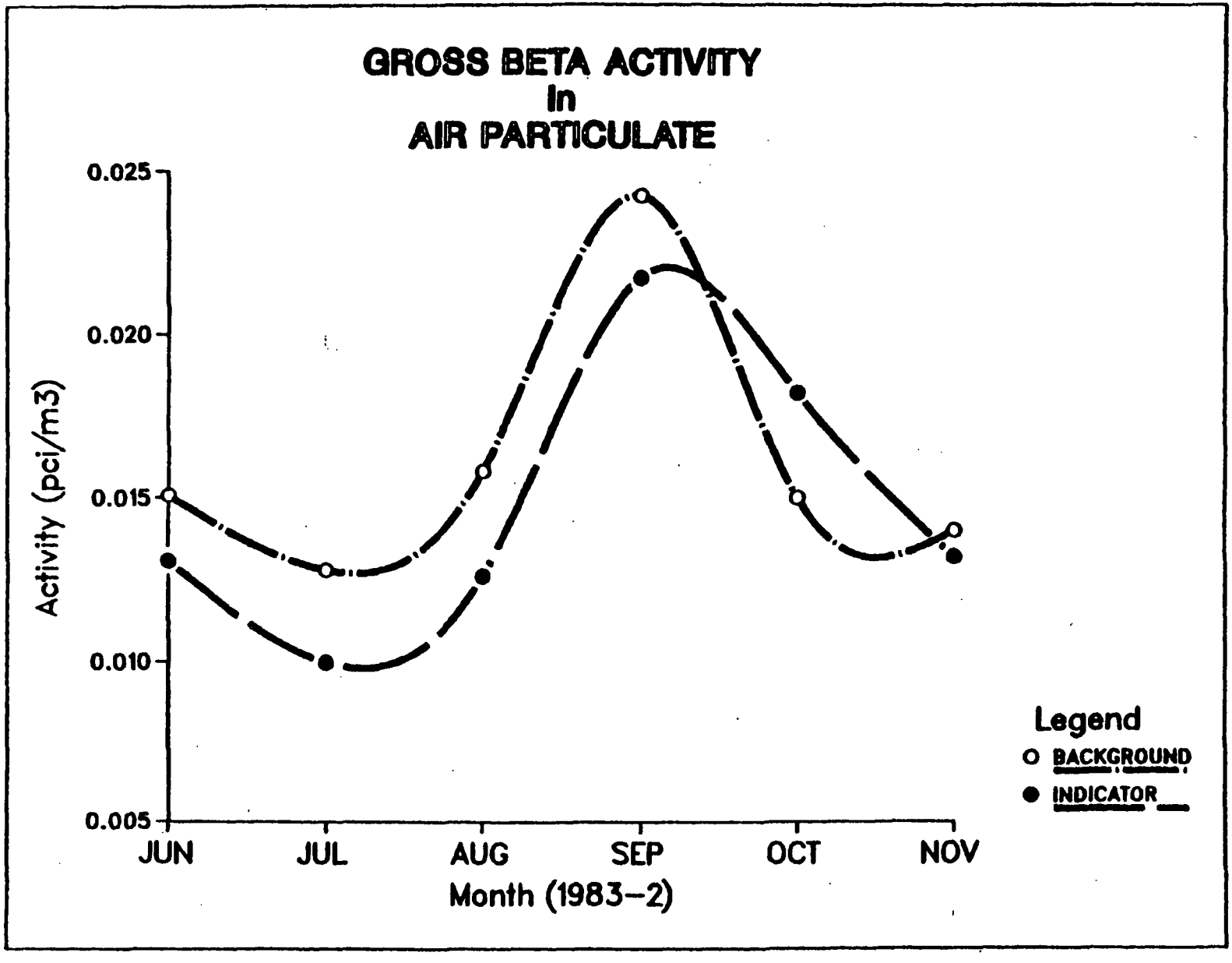
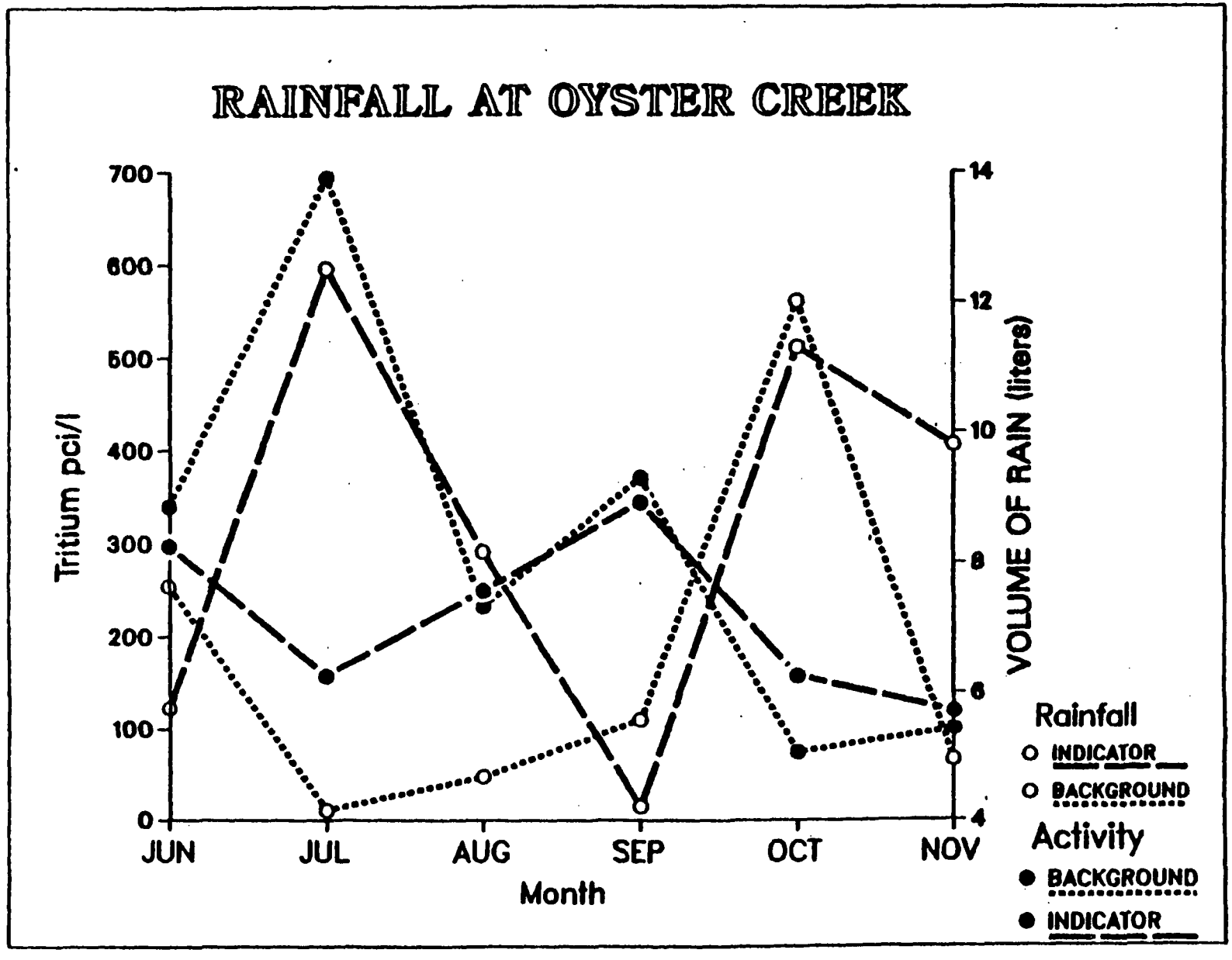

GROSS BETA ACTIVITY
In
AIR PARTICULATE
0.025
0.020
0.015
0.010
0.005
Activity (pci/m3)
JUN
JUL
AUG
SEP
OCT
NOV
Month (1983-2)
Legend
BACKGROUND
INDICATOR

FIGURE 8


RAINFALL AT OYSTER CREEK
Tritium pci/l
700
600
500
400
300
200
100
0
VOLUME OF RAIN (liters)
14
12
10
8
6
4
JUN
JUL
AUG
SEP
OCT
NOV
Month
Rainfall
INDICATOR
BACKGROUND
Activity
BACKGROUND
INDICATOR

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) consuming 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 well 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 doses at indicator stations were at or below those of background stations (Table 12).

TABLE 17

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE

PERIOD FROM JULY 1, 1983 THROUGH SEPTEMBER 30, 1983

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (MREM)	AGE GROUP	LOCATION DIST (m)	LOCATION DIR (TOWARD)
LIQUID	TOTAL BODY	1.54 E-4	TEEN	RECEPTOR 1	
LIQUID	GI-TRACT	8.83 E-4	ADULT	RECEPTOR 1	
NOBLE GAS*	AIR DOSE (γ-MRAD)	-			
NOBLE GAS	AIR DOSE (β-MRAD)	-			
NOBLE GAS	TOTAL BODY	-			
NOBLE GAS	SKIN	-			
IODINE & PARTICULATE	THYROID	6.94 E-3	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, 1983 THROUGH DECEMBER 31, 1983

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (MREM)	AGE GROUP	LOCATION DIST (m)	LOCATION DIR (TOWARD)
LIQUID*	TOTAL BODY	-		-	
LIQUID	GI-TRACT	-		-	
NOBLE GAS*	AIR DOSE (ϒ-MRAD)	-		-	-
NOBLE GAS	AIR DOSE (ß-MRAD)	-		-	-
NOBLE GAS	TOTAL BODY	-		-	-
NOBLE GAS	SKIN	-		-	-
IODINE & PARTICULATE	THYROID	-		-	-

* Noble Gas and Liquid Activity during the period were not released. Therefore, dose assessment could not be performed.

TABLE 19

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE

PERIOD FROM JULY 1, 1983 THROUGH DECEMBER 31, 1983

EFFLUENT	APPLICABLE ORGAN	SEMIANNUAL ESTIMATED DOSE (MREM)	ANNUAL % APPLIC. LIMIT	ANNUAL LIMIT (MR)
LIQUID	TOTAL BODY	1.54 E-4	5.1 E-3	3.0
LIQUID	GI-TRACT	8.83 E-4	8.0 E-3	10.0
NOBLE GAS	AIR DOSE (γ-MRAD)	-	-	10.0
NOBLE GAS	AIR DOSE (β-MRAD)	-	-	20.0
NOBLE GAS	TOTAL BODY	-	-	5.0
NOBLE GAS	SKIN	-	-	15.0
IODINE & PARTICULATE	THYROID	6.94 E-3	4.60 E-2	15.0

IV. REFERENCES

REFERENCES

Choppin, G. R. and J. Rydberg. Nuclear Chemistry Theory and Applications. Pergamon Press. New York, N. Y. 1980. 667 pp.