GPU NUCLEAR CORPORATION

OYSTER CREEK NUCLEAR GENERATING STATION

EFFLUENT RELEASE REPORT

1986-1

Nuclear

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

September 2, 1986

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

Dear Dr. Murley:

Subject: Oyster Creek Nuclear Generating Station
Effluent Release Report

Attached is a copy of the Oyster Creek Effluent Release report for the period covering January 1986 through June 1986. This submittal is made in accordance with 10 CFR 50.36a(a)2 and our Operating License and Technical Specifications.

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

Very truly yours,

Peter B. Fiedler
Vice President and Director
Oyster Creek

PBF:DM:dam
Attachment

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

NRC Resident Inspectors
Oyster Creek Nuclear Generating Station

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

IE25
1/3

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8610170267 DOC. DATE: 86/06/30 NOTARIZED: NO DOCKET #
FACIL: 50-219 Oyster Creek Nuclear Power Plant, Jersey Central Powe 05000219
AUTH. NAME AUTHOR AFFILIATION
FIEDLER, P. B. General Public Utilities Corp. - GPU Service Corp.
RECIP. NAME RECIPIENT AFFILIATION

MURLEY, T. E. Region 1, Office of Director

SUBJECT: "Oyster Creek Nuclear Generating Station Effluent Release Rept 1986-1, Jan-June 1986." W/860902 ltr.

DISTRIBUTION CODE: IE25D COPIES RECEIVED: LTR 1 ENCL 13 SIZE: 99
TITLE: Periodic Environ Monitoring Rept (50 DKT)-Annual/Semiannual/Effluent/

NOTES: License Exp date in accordance with 10CFR2, 2.109(4/9/72). 05000219

	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL
	BWR PD1 LA	1	0	BWR PD1 PD 04	5	5
	BWR PSB	3	3			
INTERNAL:	AEOD	1	1	AEOD/PTB	1	1
	IE FILE 01	1	1	NRR BWR ADTS	1	1
	NRR PWR-A ADTS	1	1	NRR PWR-B ADTS	1	1
	NRR/DSRO/RRAB	1	1	RGN2/DRSS/EPRPB	1	1
	RM/DDAMI/MIB	1	1			
EXTERNAL:	LPDR 03	1	1	NRC PDR 02	1	1

6 Encls

TOTAL NUMBER OF COPIES REQUIRED: LTTR 20 ENCL ~~19~~

SUMMARY

OYSTER CREEK NUCLEAR GENERATING STATION

1986-1 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. Environmental media, including air, aquatic sediment, surface water, well water, soil, precipitation, vegetation, shellfish, fish, and crabs, were sampled on a routine basis at semimonthly, monthly and/or quarterly frequencies at 39 locations. The annual magnitude of effort to collect and analyze the environmental samples is in excess of four man years at a cost exceeding $250,000.00. This report concludes that exposures to man from OCNGS radioactive effluents are well below the federal limits contained in Title 10, Part 20 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.

Section II summarizes the meteorological data and effluents released from the facility for the reporting period. It itemizes gaseous releases of 76,724 curies of fission and activation gases, 2.30 curies of non-particulate halogens, 14.66 curies of tritium, and 0.87 curies of particulate radioactivity. No radioactive liquid releases were made from the facility during the reporting period. Section II also itemizes 101 curies of radioactivity, contained in 146.5 cubic meters of waste, which was shipped offsite in 15 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 radioactivity detected in environmental media was attributable to facility operations for the reporting period. Natural radioactivity, weapons testing fallout, and radioactive fallout from the Chernobyl, USSR, event were considered the causes of 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.

TABLE OF CONTENTS

		PAGE
	LIST OF TABLES	i
	LIST OF FIGURES	iii
I	INTRODUCTION	1
II	EFFLUENT AND WASTE DISPOSAL SUMMARY	5
III	RADIOLOGICAL ENVIRONMENTAL SUMMARY	63

LIST OF TABLES

Table #	Title	Page
Table 1A	Effluent and Waste Disposal Semiannual Report 1986-1. Gaseous Effluents - Summation of all Releases	13
Tables 1B & 1C	Effluent and Waste Disposal Semiannual Report 1986-1. Gaseous Effluents - Elevated Releases	14-15
Table 1D	Effluent and Waste Disposal Semiannual Report 1986-1. Gaseous Effluents - Ground Level Releases	16
Table 2A	Effluent and Waste Disposal Semiannual Report 1986-1. Liquid Effluents - Summation of all Releases	17
Table 2B	Effluent and Waste Disposal Semiannual Report 1986-1, Liquid Effluents	18
Table 3	Effluent and Waste Disposal Semiannual Report 1986-1. Solid Waste and Irradiated Fuel Shipments	19
Table 4	Meteorological Classifications of Atmospheric Stability	24
Table 5A through 5G	Oyster Creek Joint Frequency Tables of Wind Speed and Direction (33 feet) versus Delta Temperature (150-33 feet). 1/1/86 - 3/31/86	25-32
Table 6A through 6G	Oyster Creek Joint Frequency Tables of Wind Speed and Direction (33 feet) versus Delta Temperature (150-33 feet). 4/1/86 - 6/30/86	33-40
Table 7A through 7G	Oyster Creek Joint Frequency Tables of Wind Speed and Direction (380 feet) versus Delta Temperature (380-33 feet). 1/1/86 - 3/31/86	41-48
Table 8A through 8G	Oyster Creek Joint Frequency Tables of Wind Speed and Direction (380 feet) versus Delta Temperature (380-33 feet). 4/1/86 - 6/30/86	49-56
Table 9	Meteorological Data Recovery for the Oyster Creek Nuclear Generating Station	62

LIST OF TABLES

Table #	Title	Page
Table 10	Oyster Creek Station - Environmental Monitoring Stations - Location and Sample Type Collected	67-70
Table 11	Radiogas Film Badge Exposures - December, 1985 through June, 1986	73
Table 12	Gamma Dose to the Environment (mR/std month) as measured by Thermoluminescent Dosimeter for December, 1985 through June, 1986	74
Table 13	Radiological Environmental Monitoring Program Format Summary	75
Table 14	REMP Semiannual Summary - December, 1985 through June, 1986	76-124
Table 15	REMP First Quarter Summary - December, 1985 through February, 1986	125-149
Table 16	REMP Second Quarter Summary - March, 1986 through June, 1986	150-191
Table 17	Summary of Maximum Individual Doses for the period from January, 1986 through March, 1986	196
Table 18	Summary of Maximum Individual Doses for the period from April, 1986 through June, 1986	197
Table 19	Summary of Maximum Individual Doses for the period from January, 1986 through June, 1986	198

LIST OF FIGURES

Figure #	Title	Page
1	Meteorological Data: Schematic Diagram of System Components and Information Flow	23
2	Wind Rose - 33' Level - January, 1986 through March, 1986	57
3	Wind Rose - 380' Level - January, 1986 through March, 1986	58
4	Wind Rose - 33' Level - April, 1986 through June, 1986	59
5	Wind Rose - 380' Level - April, 1986 through June, 1986	60
6	Oyster Creek Monthly Rainfall	61
7	Map of REMP Indicator Stations	71
8	Map of REMP Indicator and Background Stations	72

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 December 1, 1985 through June 30, 1986.

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 January 1, 1986 through June 30, 1986. 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 December 1, 1985 through June 30, 1986 as required by section 4.6.B(3) of the Technical Specifications - Appendix A. Radiological Environmental data are presented as

recommended in proposed USNRC Regulatory Guide 4.8. This section also relates plant effluent releases to radiological environmental data.

PLANT OPERATIONS SUMMARY

December 1, 1985	Generator on line at 93% Rated Power
December 15, 1985	Reactor Scram
December 16, 1985	Reactor Startup
December 17, 1985	Generator On Line
December 31, 1985	Generator on line at 93% Rated Power
January 15, 1986	Generator on line at 93% Rated Power
January 31, 1986	Generator on line at 93% Rated Power
February 14, 1986	Generator on line at 91% Rated Power
February 28, 1986	Generator on line at 87% Rated Power
March 6, 1986	Reactor Scram
March 7, 1986	Reactor Startup
March 8, 1986	Generator On Line
March 15, 1986	Generator on line at 83% Rated Power
March 27, 1986	Reactor Shutdown
March 30, 1986	Reactor Startup
March 31, 1986	Generator On Line
April 12, 1986	Reactor Shutdown
April 15, 1986	Reactor Shutdown - Refueling and Maintenance Outage
April 30, 1986	Reactor Shutdown - Refueling and Maintenance Outage
May 15, 1986	Reactor Shutdown - Refueling and Maintenance Outage
May 31, 1986	Reactor Shutdown - Refueling and Maintenance Outage
June 15, 1986	Reactor Shutdown - Refueling and Maintenance Outage
June 30, 1986	Reactor Shutdown - Refueling and Maintenance Outage

II. EFFLUENT AND WASTE DISPOSAL SUMMARY

EFFLUENT AND WASTE DISPOSAL SUMMARY

A. Gaseous Effluents

During the reporting period, January 1, 1986 through June 30, 1986, 7.67 E4 curies of fission and activation gases, 6.21 E-1 curies of non-particulate halogens (iodines) with half-lives greater than eight days, 7.79 E-2 curies of particulates with half-lives greater than eight days, and 1.47 E1 curies of tritium were released. The maximum hourly release rate of gross activity from the stack was 6.29 E4 microcuries per second which occurred at approximately 1000 on April 12, 1986. The first and second quarter airborne releases for this period are summarized in Tables 1A through 1D, which are found on pages 13 through 16.

B. Liquid Effluents

A total of 3.50 E7 liters of water was processed through the radwaste system. Of this total, none was released to the environment. The first and second quarter liquid release data for this period are summarized in Tables 2A and 2B, which are found on pages 17 and 18.

C. Solid

During the reporting period, a total volume of 1.47 E2 cubic meters of solid waste containing 1.01 E2 curies of radioactivity was shipped off site in 15 shipments. No irradiated fuel was shipped off site. The solid waste shipments are summarized in Table 3, page 19.

D. Meteorological Data

During the reporting period, onsite meteorological conditions were monitored and recorded. The joint frequency distribution of wind speed and direction data obtained from the 116 meter (380 feet) and the 10 meter (33 feet) sensors are summarized for each stability class per quarter. Also included are percent of data recovery and cumulative wind roses for 10 meter (33 feet) and 116 meter (380 feet) elevations. The meteorological data are summarized in Tables 4 through 9 which are found on pages 24 through 62.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SUPPLEMENTAL INFORMATION

FACILITY - Oyster Creek Nuclear Generating Station

LICENSEE - Owner - Jersey Central Power & Light Company

Operator - GPU Nuclear Corporation

1. Regulatory Limits

   a. Fission and Activation Gases:

      Technical Specification 3.6.A.1

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

   b. Iodines and particulates, halflives > 8 days:

      Technical Specification 3.6.A.2

      4 uCi/sec

   c. Liquid Effluents:

      Technical Specification 3.6.B.1

      Maximum permissible concentrations,

      Appendix B, Table II, Column 2

      of 10 CFR 20.

2. Maximum Permissible Concentrations (MPC)

   a. Fission and Activation Gases:

      1. First Quarter - 3.87 E-3 uci/cc

      2. Second Quarter - 3.40 E-3 uci/cc

   b. Iodines and Particulates:

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

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

c. Liquid Effluents:

From Appendix B, Table II, Column 2, of

10 CFR 20

3. Average Energy

a. First Quarter - 5.75 E-1 Mev/Dis

b. Second Quarter - 6.54 E-1 Mev/Dis

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 and a low background internal proportional beta counter.

d. Liquid Effluents:

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

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

Effluents

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

Solid Waste

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

5. Batch Releases

a. Liquid

1. Number of batch releases:

a. First Quarter - No Releases

b. Second Quarter - No Releases

2. Total time period for batch releases:

a. First Quarter - No Releases

b. Second Quarter - No Releases

3. Maximum time period for a batch release:

a. First Quarter - No Releases

b. Second Quarter - No Releases

4. Average time period for a batch release:

a. First Quarter - No Releases

b. Second Quarter - No Releases

5. Minimum time period for a batch release:

a. First Quarter - No Releases

b. Second Quarter - No Releases

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

a. First Quarter - No Releases

b. Second Quarter - No Releases

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 1986-1
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	First Quarter	Second Quarter	Est. Total Error %
A. Fission & activation gases				
1. Total release	Ci	6.46 E4	1.21 E4	3.0 E1
2. Average release rate for period	uCi/sec	8.80 E3	1.24 E4	
3. Percent of Tech Spec limit	%	2.41	3.86	
B. Iodines				
1. Total Iodine-131	Ci	5.04 E-1	1.17 E-1	2.5 E1
2. Average release rate for period	uCi/sec	6.48 E-2	1.49 E-2	
3. Percent of Tech Spec limit*	%	1.83	4.10 E-1	
C. Particulates				
1. Particulates with half-lives >8 days	Ci	6.61 E-2	1.18 E-2	2.5 E1
2. Average release rate for period	uCi/sec	8.50 E-3	1.50 E-3	
3. Percent of Tech Spec limit*	%	1.83	4.10 E-1	
4. Gross alpha radioactivity	Ci	3.12 E-6	4.60 E-6	
D. Tritium				
1. Total release	Ci	1.31 E1	1.56	4.0 E1
2. Average release rate for period	uCi/sec	1.68	1.99 E-1	

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

TABLE 1B
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1986-1
GASEOUS EFFLUENTS-ELEVATED RELEASE

CONTINUOUS MODE

Nuclides Released	Unit	First Quarter	Second Quarter		LLD uCi/cc
1. Fission gases					
Krypton-85m	Ci	4.80 E3	7.27 E2		4.24 E-8
Krypton-87	Ci	6.07 E3	1.67 E3		7.42 E-8
Krypton-88	Ci	8.73 E3	2.15 E3		1.34 E-7
Xenon-133	Ci	1.50 E4	1.95 E3		1.75 E-7
Xenon-135	Ci	1.99 E4	3.76 E3		3.63 E-8
Xenon-135m	Ci	4.48 E3	1.12 E3		6.36 E-8
Xenon-138	Ci	3.41 E3	7.14 E2		1.39 E-7
others					
Krypton-89	Ci	< LLD	< LLD		5.76 E-7
Xenon-131m	Ci	2.21 E3	< LLD		1.94 E-6
Xenon-133m	Ci	< LLD	< LLD		3.25 E-7
Xenon-137	Ci	< LLD	< LLD		4.28 E-7
Total for period	Ci	6.46 E4	1.21 E4		
2. Iodines					
Iodine-131	Ci	5.04 E-1	1.17 E-1		4.91 E-13
Iodine-133	Ci	5.73 E-1	1.21 E-1		1.17 E-13
Iodine-135	Ci	8.33 E-1	1.55 E-1		9.82 E-13
Total for period	Ci	1.91	3.93 E-1		

TABLE 1C
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1986-1
GASEOUS EFFLUENTS-ELEVATED RELEASE

Nuclides Released	Unit	First Quarter	Second Quarter		LLD uCi/cc
3. PARTICULATES					
Strontium-89	Ci	1.08 E-2	2.99 E-3		3.32 E-16
Strontium-90	Ci	5.41 E-5	2.00 E-5		5.27 E-17
Cesium-134	Ci	3.56 E-3	4.26 E-4		2.61 E-13
Cesium-137	Ci	4.17 E-3	4.90 E-4		2.92 E-13
Barium-140	Ci	1.05 E-2	1.56 E-3		5.97 E-13
Lanthanum-140	Ci	1.20 E-2	1.64 E-3		8.33 E-14
OTHERS					
Sodium-24	Ci	1.18 E-2	<LLD		1.88 E-13
Manganese-54	Ci	1.07 E-3	<LLD		2.28 E-13
Cobalt-56	Ci	2.58 E-4	1.01 E-3		1.97 E-13
Cobalt-60	Ci	<LLD	2.03 E-4		6.00 E-13
Strontium-85	Ci	4.47 E-5	<LLD		1.92 E-13
Yttrium-88	Ci	3.78 E-3	<LLD		5.77 E-14
Strontium-91	Ci	2.19 E-1	2.79 E-2		5.51 E-13
Technetium-99m	Ci	2.31 E-1	2.16 E-2		1.17 E-13
Silver-110m	Ci	<LLD	1.48 E-4		2.19 E-13
Iodine-131	Ci	3.11 E-2	4.98 E-3		2.08 E-13
Tellurium-132	Ci	7.83 E-3	1.55 E-3		1.52 E-13
Iodine-133	Ci	1.08 E-1	1.18 E-2		2.05 E-13
Iodine-135	Ci	1.36 E-1	2.15 E-3		7.63 E-13
Cesium-136	Ci	7.55 E-4	<LLD		1.71 E-13
Cerium-141	Ci	2.09 E-5	<LLD		1.83 E-13
Neptunium-239	Ci	2.75 E-3	7.45 E-4		4.30 E-13
TOTAL	Ci	7.94 E-1	7.92 E-2		

TABLE 1D
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1986-1
GASEOUS EFFLUENTS-GROUND LEVEL RELEASE

Nuclides Released	Unit	First Quarter	Second Quarter		LLD uCi/cc
1. Fission Gases					
TOTAL	Ci	2.74 E1	< LLD		
2. Iodines					
Iodine-131	Ci	2.06 E-5	6.03 E-6		3.09 E-14
Iodine-133	Ci	1.85 E-5	2.26 E-6		5.07 E-14
TOTAL	Ci	3.91 E-5	8.29 E-6		
3. Particulates					
Yttrium-88	Ci	1.08 E-6	< LLD		5.77 E-14
Strontium-89	Ci	< LLD	< LLD		5.09 E-16
Strontium-90	Ci	< LLD	< LLD		1.11 E-16
TOTAL	Ci	1.08 E-6	< LLD		
NO OTHER NUCLIDES IDENTIFIED					

TABLE 2A
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1986-1
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	First Quarter	Second Quarter	Est. Total Error %
A. Fission & activation gases				
1. Total releases (not including tritium, gases, alpha)	Ci	*	*	-
2. Average diluted concentration during period	uCi/ml	-	-	
3. Percent of applicable limit	%	-	-	
B. Tritium				
1. Total release	Ci	*	*	-
2. Average diluted concentration during period	uCi/ml	-	-	
3. Percent of applicable limit	%	-	-	
C. Dissolved and entrained gases				
1. Total release	Ci	*	*	-
2. Average diluted concentration during period	uCi/ml	-	-	
3. Percent of applicable limit	%	-	-	
D. Gross alpha radioactivity				
1. Total release	Ci	*	*	-
E. Volume of waste released (prior to dilution)	liters	0.00	0.00	-
F. Volume of dilution water used during period	liters	4.76 E11	1.23 E11	1.0 E1

* NO RELEASES THIS PERIOD.

TABLE 2B
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1986-1
LIQUID EFFLUENTS

		BATCH MODE			
Nuclides Released	Unit	First Quarter	Second Quarter		LLD uCi/ml
Strontium-89	Ci	*	*		-
Strontium-90	Ci	*	*		-
Cesium-134	Ci	*	*		-
Cesium-137	Ci	*	*		-
Iodine-131	Ci	*	*		-
Cobalt-58	Ci	*	*		-
Cobalt-60	Ci	*	*		-
Iron-59	Ci	*	*		-
Zinc-65	Ci	*	*		-
Manganese-54	Ci	*	*		-
Chromium-51	Ci	*	*		-
Zirconium-95	Ci	*	*		-
Niobium-95	Ci	*	*		-
Molybdenum-99	Ci	*	*		-
Technetium-99m	Ci	*	*		-
Barium-140	Ci	*	*		-
Lanthanum-140	Ci	*	*		-
Cerium-141	Ci	*	*		-
TOTAL FOR PERIOD	Ci	*	*		
Xenon-133	Ci	*	*		-
Xenon-135	Ci	*	*		-
TOTAL FOR PERIOD	Ci	*	*		

* NO RELEASES THIS PERIOD.

TABLE 3
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1986-1
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	4.15 E1	
	Ci	9.23 E1	2.5 E1
b. Dry compressible waste, contaminated equip., etc.	m^3	1.05 E2	
	Ci	9.06	2.5 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)	
a. Cobalt-60	5.00 E1	4.62 E1	
Iron-55	3.23 E1	2.98 E1	
Cesium-137	5.12	4.73	
Plutonium-241	4.06	3.75	
Cesium-134	3.32	3.06	
b. Iron-55	6.00 E1	5.44	
Cobolt-60	3.25 E1	2.94	
Cesium-137	1.83	1.66 E-1	
Nickel-63	2.14 E-1	1.94 E-2	
Plutonium-241	2.09 E-1	1.89 E-2	
c.			
d.			

3. Solid Waste Disposition		
Number of Shipments	Mode of Transportation	Destination
15	Motor Vehicle	Barnwell, SC

B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
None	-	-

Meteorological Data

Summary

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

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

There are redundant wind speed, wind direction, and temperature sensors at the 33 and 380 foot levels to insure an efficient percentage of data recovery and to comply with regulatory requirements. In addition, a processor calculates temperature differentials (ΔT) between

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

The meteorological tower sensors, chart recorders, and processors are calibrated four times a year, according to the draft NRC Regulatory Guide 1.23, Revision 1. Periodic tower inspections are done to insure maximum data integrity. The average data recovery is 97% for the six month period from January through June of 1986 (Table 9 - Page 62). Meteorological data are an integral part of the off-site dose assessment program. Occasionally, lower percentages of data recovery, as in the month of March, are the result of sensor, computer hardware, and/or chart recorder malfunctions.

Data Analysis

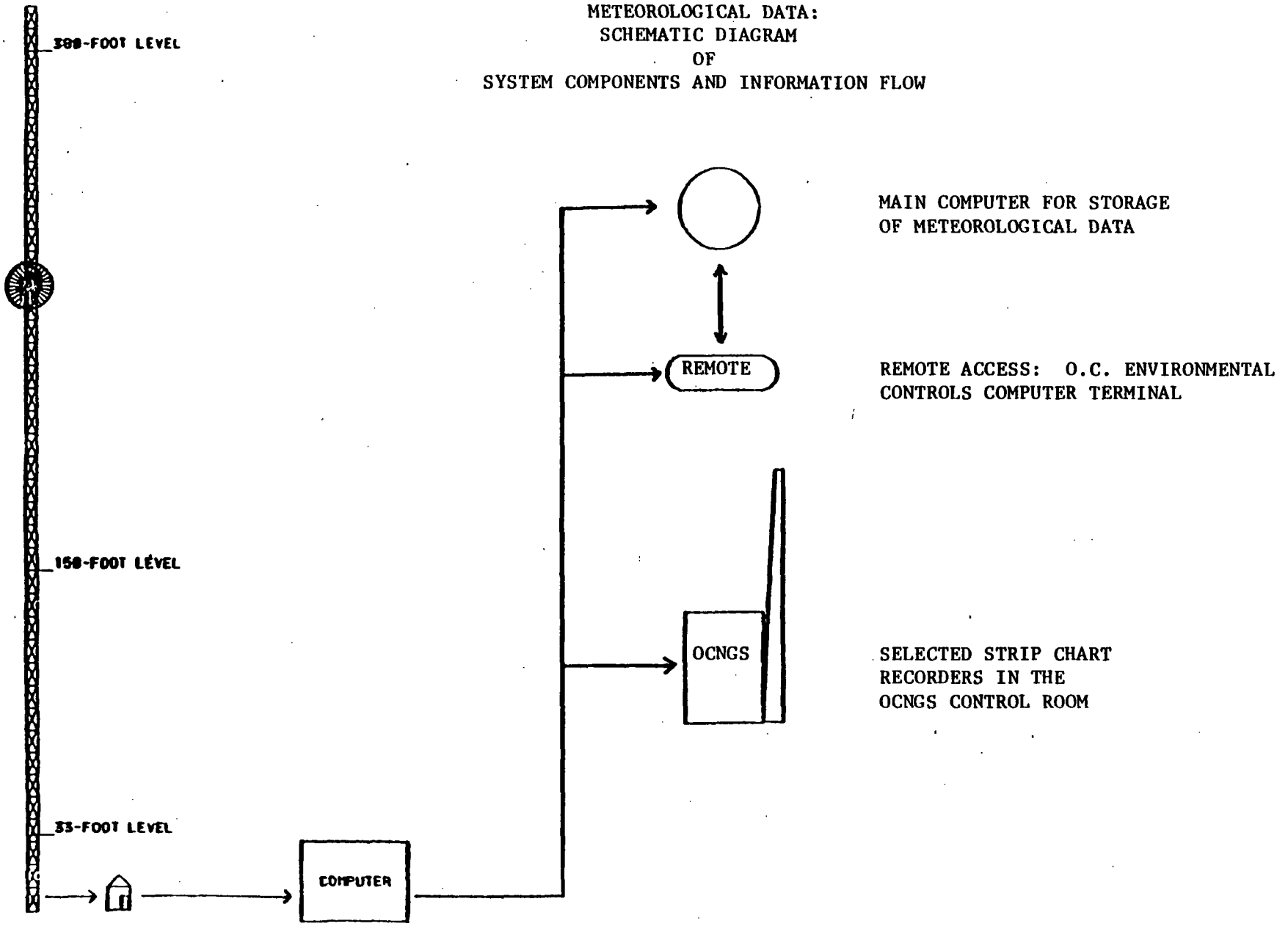
For the first half of the reporting period (January through March), the predominant wind directions were from the northwest and west-northwest (Figures 2 and 3, pages 57 and 58). In addition, there was a slightly increased component of wind direction from the south-southwest. This can be seen especially at the 380 - foot level and indicates an early transition of weather patterns from the winter to the summer months. The normal northwest wind direction is expected as the winter months are dominated by Canadian air masses. For the second half of the period (April through June), the predominant wind directions were evenly divided between the northwest/west-northwest and southwest/south-

southwest sectors (Figures 4 and 5, pages 59 and 60). This defines the second half of the period as the transition months between the winter and summer seasons. Summer months usually have the predominant wind direction from the southwest and south.

Lower than normal precipitation levels were recorded during the first three months of the reporting period (Figure 6, page 61). The reference data were obtained from the closest and most accurate National Weather Service station located in Atlantic City, NJ. (Recent comparison studies have shown close similarities of hourly meteorological data between the Oyster Creek and Atlantic City sites.) There was a lack of late winter precipitation events during this first quarter. During the second half of the reporting period, April and June were the wettest months (4.06 and 4.05 inches, respectively) while May was the driest month with only 0.86 inches of rainfall recorded. Normal May rainfall is approximately 3.4 inches. Precipitation during the latter half of this second quarter was primarily due to thundershower activity. Other rainfall activity did not reach the site due to the stabilizing effect of the sea-breeze, common in the month of June and throughout the summer. Due to this highly stable weather phenomenon, showers build up to the west, move east-northeastward, then become stagnant and eventually decay up to 15 miles inland. Only one major storm occurred during the period, that being in mid-April, which dumped 3.48 inches of precipitation on the site over two days. The total precipitation for the period was 15.03 inches. The normal six-month Oyster Creek rainfall is approximately 21 inches. Precipitation events were predominantly the result of extratropical storms more commonly referred to as "northeasters". These storms are a result of a very active jet stream, the common area of origin of mid-latitude storms.

FIGURE 1
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION

METEOROLOGICAL DATA:
SCHEMATIC DIAGRAM
OF
SYSTEM COMPONENTS AND INFORMATION FLOW



400' METEOROLOGICAL TOWER WITH INSTRUMENT TRANSMITTERS AT 3 LEVELS, SIGNAL PROCESSORS, COMPUTER, AND ALL STRIP CHART RECORDERS AT BASE

TABLE 4

METEOROLOGICAL CLASSIFICATIONS OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	σ_θ[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 1/1/86 - 3/31/86

PERIOD OF RECORD: 86010101-86033124

STABILITY CLASS: A DT/DZ

ELEVATION: SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (mph) 1-3	4-7	8-12	13-18	19-24	24	TOTAL
N	1	7	15	0	0	0	23
NNE	0	3	4	0	0	0	7
NE	1	6	13	0	0	0	20
ENE	0	19	14	0	0	0	33
E	0	10	10	0	0	0	20
ESE	0	2	2	0	0	0	4
SE	0	3	6	2	0	0	11
SSE	0	0	5	5	0	0	10
S	1	0	7	14	1	0	23
SSW	1	0	5	10	2	0	18
SW	1	3	4	4	0	0	12
WSW	0	8	14	5	1	0	28
W	0	9	11	10	3	0	33
WNW	0	14	54	10	5	0	83
NW	2	11	62	16	0	0	91
NNW	5	8	19	2	0	0	34
TOTAL	12	103	245	78	12	0	450

PERIODS OF CALM (hours): 7

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 129

TABLE 5 - continued

PERIOD OF RECORD: 86010101-86033124

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	0	3	0	0	0	3
NNE	1	0	3	0	0	0	4
NE	0	1	0	0	0	0	1
ENE	0	2	0	0	0	0	2
E	2	3	0	0	0	0	5
ESE	0	2	1	1	0	0	4
SE	0	2	1	0	0	0	3
SSE	0	3	2	2	0	0	7
S	0	0	2	3	0	0	5
SSW	0	0	1	3	3	0	7
SW	0	2	8	0	0	0	10
WSW	0	2	2	0	0	0	4
W	0	2	6	6	1	0	15
WNW	0	3	7	1	0	0	11
NW	0	6	3	0	0	0	9
NNW	1	4	2	0	0	0	7
TOTAL	4	32	41	16	4	0	97

PERIODS OF CALM (hours): 7

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 129

TABLE 5 - continued

PERIOD OF RECORD: 86010101-86033124

STABILITY CLASS: C DT/DZ

ELEVATION: SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (mph) 1-3	4-7	8-12	13-18	19-24	24	TOTAL
N	0	2	2	0	0	0	4
NNE	1	1	0	0	0	0	2
NE	0	0	2	0	0	0	2
ENE	1	1	0	0	0	0	2
E	0	1	0	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	1	1	0	0	0	2
SSE	0	1	1	0	0	0	2
S	0	1	0	0	0	0	1
SSW	0	1	2	6	1	0	10
SW	0	0	1	0	0	0	1
WSW	0	2	1	0	0	0	3
W	0	3	1	0	0	0	4
WNW	0	1	4	1	0	0	6
NW	1	6	1	1	0	0	9
NNW	0	1	0	0	0	0	1
TOTAL	3	22	16	8	1	0	50

PERIODS OF CALM (hours): 7

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 129

TABLE 5 - continued

PERIOD OF RECORD: 86010101-86033124

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	2	10	0	0	0	13
NNE	2	14	9	0	0	0	25
NE	5	12	16	2	0	0	35
ENE	3	12	6	1	0	0	22
E	5	7	6	4	0	0	22
ESE	1	6	7	3	0	0	17
SE	2	7	4	0	0	0	13
SSE	4	1	6	2	0	0	13
S	0	6	12	3	0	0	21
SSW	3	14	23	20	6	1	67
SW	4	6	6	1	0	0	17
WSW	2	6	5	0	0	0	13
W	5	4	15	5	0	0	29
WNW	5	15	26	20	0	0	66
NW	3	20	38	8	0	0	69
NNW	4	34	15	1	0	0	54
TOTAL	49	166	204	70	6	1	496

PERIODS OF CALM (hours): 7

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 129

TABLE 5 - continued

PERIOD OF RECORD: 86010101-86033124

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	2	7	0	0	0	0	9
NNE	6	7	1	0	0	0	14
NE	5	15	9	5	0	0	34
ENE	4	19	4	2	0	0	29
E	6	8	0	0	0	0	14
ESE	2	3	1	0	0	0	6
SE	3	5	2	0	0	0	10
SSE	3	4	5	0	0	0	12
S	2	8	7	2	0	0	19
SSW	0	20	19	1	0	0	40
SW	8	28	22	2	0	0	60
WSW	14	23	12	1	0	0	50
W	6	17	13	1	0	0	37
WNW	8	30	11	1	0	0	50
NW	11	50	17	0	0	0	78
NNW	10	16	4	0	0	0	30
TOTAL	90	260	127	15	0	0	492

PERIODS OF CALM (hours): 7

VARIABLE DIRECTION: 1

HOURS OF MISSING DATA: 129

TABLE 5 - continued

PERIOD OF RECORD: 86010101-86033124

STABILITY CLASS: F DT/DZ

ELEVATION: SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (mph) 1-3	4-7	8-12	13-18	19-24	24	TOTAL
N	2	2	0	0	0	0	4
NNE	2	0	0	0	0	0	2
NE	3	0	0	0	0	0	3
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	1	1	0	0	0	0	2
SE	2	0	0	0	0	0	2
SSE	0	4	0	0	0	0	4
S	0	2	0	0	0	0	2
SSW	1	1	0	0	0	0	2
SW	8	6	0	0	0	0	14
WSW	6	24	0	0	0	0	30
W	6	6	1	0	0	0	13
WNW	6	16	0	0	0	0	22
NW	15	9	0	0	0	0	24
NNW	5	6	0	0	0	0	11
TOTAL	57	77	1	0	0	0	135

PERIODS OF CALM (hours): 7

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 129

TABLE 5 - continued

PERIOD OF RECORD: 86010101-86033124

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	1	0	0	0	0	0	1
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	1	0	0	0	0	0	1
SE	2	0	0	0	0	0	2
SSE	4	2	0	0	0	0	6
S	3	3	0	0	0	0	6
SSW	6	0	0	0	0	0	6
SW	13	13	0	0	0	0	26
WSW	26	65	0	0	0	0	91
W	30	39	1	0	0	0	70
WNW	19	11	0	0	0	0	30
NW	22	10	0	0	0	0	32
NNW	8	20	0	0	0	0	28
TOTAL	144	166	1	0	0	0	311

PERIODS OF CALM (hours): 7

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 129

TABLE 5 - continued

PERIOD OF RECORD: 86010101-86033124

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	11	23	30	0	0	0	64
NNE	13	25	17	0	0	0	55
NE	15	34	40	7	0	0	96
ENE	9	53	24	3	0	0	89
E	15	29	16	4	0	0	64
ESE	5	14	11	4	0	0	34
SE	9	18	14	2	0	0	43
SSE	11	15	19	9	0	0	54
S	6	20	28	22	1	0	77
SSW	11	36	50	40	12	1	150
SW	34	58	41	7	0	0	140
WSW	48	130	34	6	1	0	219
W	47	80	48	22	4	0	201
WNW	38	90	102	33	5	0	268
NW	54	112	121	25	0	0	312
NNW	33	89	40	3	0	0	165
TOTAL	359	826	635	187	23	1	2031

PERIODS OF CALM (hours): 7

VARIABLE DIRECTION: 1

HOURS OF MISSING DATA: 129

TABLE 6

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and Wind Direction 33ft versus Delta Temperature 150-33ft for the period 4/1/86 - 6/30/86

PERIOD OF RECORD: 86040101-86063024

STABILITY CLASS: A DT/DZ

ELEVATION: SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (mph) 1-3	4-7	8-12	13-18	19-24	24	TOTAL
N	1	14	16	1	0	0	32
NNE	0	5	16	4	0	0	25
NE	1	10	36	2	0	0	49
ENE	0	9	40	2	0	0	51
E	3	19	21	2	0	0	45
ESE	0	16	29	2	0	0	47
SE	0	8	39	1	0	0	48
SSE	0	3	27	12	0	0	42
S	1	7	35	46	2	0	91
SSW	0	10	26	9	3	1	49
SW	1	7	23	2	0	0	33
WSW	0	7	17	4	0	0	28
W	0	24	24	2	0	0	50
WNW	0	18	43	15	0	0	76
NW	1	13	51	5	0	0	70
NNW	1	17	35	2	0	0	55
TOTAL	9	187	478	111	5	1	791

PERIODS OF CALM (hours): 2

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 28

TABLE 6 - continued

PERIOD OF RECORD: 86040101-86063024

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	1	0	0	0	7
NNE	0	1	0	1	0	0	2
NE	1	4	6	1	0	0	12
ENE	0	0	6	1	0	0	7
E	0	4	0	2	1	0	7
ESE	0	2	2	0	0	0	4
SE	1	5	0	0	0	0	6
SSE	0	0	3	0	0	0	3
S	0	2	8	2	0	0	12
SSW	0	3	3	3	0	0	9
SW	0	2	0	0	0	0	2
WSW	1	2	1	0	0	0	4
W	0	4	0	0	0	0	4
WNW	0	5	5	0	0	0	10
NW	0	6	12	2	0	0	18
NNW	0	3	5	0	0	0	8
TOTAL	5	47	52	10	1	0	115

PERIODS OF CALM (hours): 2

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 28

TABLE 6 - continued

PERIOD OF RECORD: 86040101-86063024

STABILITY CLASS: C DT/DZ

ELEVATION: SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (mph) 1-3	4-7	8-12	13-18	19-24	24	TOTAL
N	0	1	0	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	1	3	0	0	0	4
ENE	1	0	1	2	0	0	4
E	0	2	2	1	0	0	5
ESE	0	1	1	0	0	0	2
SE	0	1	3	0	0	0	4
SSE	0	3	2	1	0	0	6
S	0	3	3	0	0	0	6
SSW	0	2	2	1	0	0	5
SW	1	0	0	0	0	0	1
WSW	0	1	4	0	0	0	5
W	2	2	4	0	0	0	8
WNW	0	0	0	0	0	0	0
NW	0	1	3	0	0	0	4
NNW	2	0	2	0	0	0	4
TOTAL	6	18	30	5	0	0	59

PERIODS OF CALM (hours): 2

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 28

TABLE 6 - continued

PERIOD OF RECORD: 86040101-86063024

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	4	5	1	0	0	0	10
NNE	1	10	8	7	0	0	26
NE	9	18	15	5	0	0	47
ENE	5	8	11	4	0	0	28
E	2	7	8	4	4	0	25
ESE	2	4	8	1	0	0	15
SE	3	17	0	0	0	0	20
SSE	4	12	7	3	0	0	26
S	4	18	28	5	0	0	55
SSW	6	30	44	0	0	0	80
SW	2	7	10	0	0	0	19
WSW	3	13	3	0	0	0	19
W	4	10	2	0	0	0	16
WNW	1	13	8	0	0	0	22
NW	5	11	11	0	0	0	27
NNW	3	4	3	0	0	0	10
TOTAL	58	187	167	29	4	0	445

PERIODS OF CALM (hours): 2

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 28

TABLE 6 - continued

PERIOD OF RECORD: 86040101-86063024

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	2	1	3	0	0	0	6
NNE	3	3	1	0	0	0	7
NE	2	7	1	0	0	0	10
ENE	2	2	2	0	0	0	6
E	2	5	0	1	0	0	8
ESE	3	5	0	1	0	0	9
SE	3	4	0	0	0	0	7
SSE	0	1	1	0	0	0	2
S	3	5	1	0	0	0	9
SSW	2	33	15	0	0	0	50
SW	9	30	9	0	0	0	48
WSW	5	39	3	0	0	0	47
W	7	21	1	0	0	0	29
WNW	3	13	0	0	0	0	16
NW	3	23	6	0	0	0	32
NNW	4	6	2	0	0	0	12
TOTAL	53	198	45	2	0	0	298

PERIODS OF CALM (hours): 2

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 28

TABLE 6 - continued

PERIOD OF RECORD: 86040101-86063024

STABILITY CLASS: F DT/DZ

ELEVATION: SPEED: SPD33A DIRECTION: DIR33A LAPSE: DT150

WIND DIRECTION	WIND SPEED (mph) 1-3	4-7	8-12	13-18	19-24	24	TOTAL
N	1	2	0	0	0	0	3
NNE	1	1	0	0	0	0	2
NE	0	1	0	0	0	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	1	0	0	0	0	1
SSE	1	1	0	0	0	0	2
S	1	2	0	0	0	0	3
SSW	3	4	0	0	0	0	7
SW	2	15	0	0	0	0	17
WSW	9	14	0	0	0	0	23
W	4	14	0	0	0	0	18
WNW	5	6	0	0	0	0	11
NW	4	10	0	0	0	0	14
NNW	2	9	0	0	0	0	11
TOTAL	33	80	0	0	0	0	113

PERIODS OF CALM (hours): 2

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 28

TABLE 6 - continued

PERIOD OF RECORD: 86040101-86063024

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	3	2	0	0	0	0	5
NNE	1	0	0	0	0	0	1
NE	1	0	0	0	0	0	1
ENE	1	0	0	0	0	0	1
E	1	0	0	0	0	0	1
ESE	1	0	0	0	0	0	1
SE	1	0	0	0	0	0	1
SSE	1	0	0	0	0	0	1
S	1	1	0	0	0	0	2
SSW	3	2	0	0	0	0	5
SW	18	0	0	0	0	0	18
WSW	33	51	0	0	0	0	84
W	32	26	0	0	0	0	58
WNW	38	12	0	0	0	0	50
NW	36	31	0	0	0	0	67
NNW	16	23	0	0	0	0	39
TOTAL	187	148	0	0	0	0	335

PERIODS OF CALM (hours): 2

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 28

TABLE 6 - continued

PERIOD OF RECORD: 86040101-86063024

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	13	29	21	1	0	0	64
NNE	6	20	25	12	0	0	63
NE	14	41	61	8	0	0	124
ENE	9	19	60	9	0	0	97
E	8	37	31	10	5	0	91
ESE	6	28	40	4	0	0	78
SE	8	36	42	1	0	0	87
SSE	6	20	40	16	0	0	82
S	10	38	75	53	2	0	178
SSW	14	84	90	13	3	1	205
SW	33	61	42	2	0	0	138
WSW	51	127	28	4	0	0	210
W	49	101	31	2	0	0	183
WNW	47	67	56	15	0	0	185
NW	49	95	83	5	0	0	232
NNW	28	62	47	2	0	0	139
TOTAL	351	865	772	157	10	1	2156

PERIODS OF CALM (hours): 2

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 28

TABLE 7

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and Wind Direction 380ft versus Delta Temperature 380-33ft for the period 1/1/86 - 3/31/86

PERIOD OF RECORD: 86010101-86033124

STABILITY CLASS: A DT/DZ

ELEVATION: SPEED: SPD380A 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	1	0	1
NNE	0	0	0	0	0	0	0
NE	0	1	1	2	0	0	4
ENE	0	0	2	6	0	0	8
E	0	0	1	1	0	0	2
ESE	0	0	0	0	0	0	0
SE	0	0	0	1	0	0	1
SSE	0	0	0	1	0	0	1
S	0	0	0	0	1	0	1
SSW	0	0	0	0	1	2	3
SW	0	0	1	0	0	0	1
WSW	0	0	1	0	0	0	1
W	0	0	0	0	0	1	1
WNW	0	0	0	4	4	6	14
NW	0	0	0	6	5	6	17
NNW	0	0	0	3	0	0	3
TOTAL	0	0	6	24	12	15	58

PERIODS OF CALM (hours): 1

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 100

TABLE 7 - continued

PERIOD OF RECORD: 86010101-86033124

STABILITY CLASS: B DT/DZ

ELEVATION: SPEED: SPD380A DIRECTION: DR380A LAPSE: DT380A

WIND DIRECTION	WIND SPEED (mph) 1-3	4-7	8-12	13-18	19-24	24	TOTAL
N	0	0	3	3	0	0	6
NNE	0	0	1	0	0	0	1
NE	0	0	1	4	0	0	5
ENE	0	0	1	5	0	0	6
E	0	0	5	0	0	0	5
ESE	0	0	0	0	0	0	0
SE	0	0	1	3	0	0	4
SSE	0	0	0	1	0	0	1
S	0	0	0	0	3	1	4
SSW	0	0	0	2	1	1	4
SW	0	0	0	0	1	1	2
WSW	0	0	0	1	0	1	2
W	0	0	0	4	2	1	7
WNW	0	0	4	9	5	5	23
NW	0	0	0	15	9	4	28
NNW	0	0	1	1	2	0	4
TOTAL	0	0	17	48	23	14	102

PERIODS OF CALM (hours): 1

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 100

TABLE 7 - continued

PERIOD OF RECORD: 86010101-86033124

STABILITY CLASS: C 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	1	4	0	0	5
NNE	0	0	4	2	0	0	6
NE	0	0	1	2	0	0	3
ENE	0	3	3	1	0	0	7
E	0	1	1	0	0	0	2
ESE	0	0	0	0	0	0	0
SE	0	0	1	0	0	0	1
SSE	0	0	2	2	0	0	4
S	0	1	0	5	2	0	8
SSW	0	0	2	0	1	2	5
SW	0	0	1	0	1	1	3
WSW	0	0	6	6	3	1	16
W	0	1	2	3	3	1	10
WNW	0	0	4	8	6	2	20
NW	0	0	3	19	11	2	35
NNW	0	0	2	6	2	0	10
TOTAL	0	6	33	58	29	9	135

PERIODS OF CALM (hours): 1

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 100

TABLE 7 - continued

PERIOD OF RECORD: 86010101-86033124

STABILITY CLASS: D 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	2	16	18	8	0	44
NNE	2	7	10	12	3	0	34
NE	0	10	7	30	14	10	71
ENE	1	8	15	13	8	7	52
E	0	11	11	5	6	3	36
ESE	0	6	7	2	2	8	25
SE	1	1	4	2	0	1	9
SSE	0	0	2	4	4	0	10
S	1	0	4	6	8	3	22
SSW	0	2	7	15	13	29	66
SW	0	1	1	10	7	3	22
WSW	0	0	4	11	6	3	24
W	3	11	5	11	20	18	68
WNW	1	7	19	25	31	27	110
NW	2	4	19	43	35	32	135
NNW	1	2	12	31	8	0	54
TOTAL	12	72	143	238	173	144	782

PERIODS OF CALM (hours): 1

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 100

TABLE 7 - continued

PERIOD OF RECORD: 86010101-86033124

STABILITY CLASS: E 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	2	0	12	11	3	0	28
NNE	0	6	5	1	0	0	12
NE	0	2	15	4	2	1	24
ENE	1	4	10	7	7	2	31
E	1	3	6	12	3	0	25
ESE	0	4	2	5	1	1	13
SE	0	0	1	2	2	1	6
SSE	0	0	0	1	3	8	12
S	0	0	1	3	2	4	10
SSW	0	1	6	7	21	26	61
SW	0	0	2	9	18	18	47
WSW	0	1	4	7	18	10	40
W	0	0	6	13	8	5	32
WNW	0	0	9	11	16	5	41
NW	0	4	8	33	42	9	96
NNW	1	5	9	15	12	2	44
TOTAL	5	30	96	141	158	92	522

PERIODS OF CALM (hours): 1

VARIABLE DIRECTION: 3

HOURS OF MISSING DATA: 100

TABLE 7 - continued

PERIOD OF RECORD: 86010101-86033124

STABILITY CLASS: F 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	3	16	8	0	27
NNE	0	1	1	6	0	0	8
NE	0	0	1	2	0	0	3
ENE	0	1	1	0	0	0	2
E	0	2	3	0	0	0	5
ESE	0	2	2	0	2	1	7
SE	0	3	1	1	3	4	12
SSE	0	1	3	0	3	1	8
S	0	1	0	0	3	1	5
SSW	0	0	1	2	7	3	13
SW	0	1	3	2	12	9	27
WSW	0	1	2	3	1	5	12
W	1	0	4	8	6	3	22
WNW	0	2	5	20	15	6	48
NW	0	1	1	14	32	8	56
NNW	0	1	0	9	15	0	25
TOTAL	1	17	31	83	107	41	280

PERIODS OF CALM (hours): 1

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 100

TABLE 7 - continued

PERIOD OF RECORD: 86010101-86033124

STABILITY CLASS: G 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	1	1	3	2	0	7
NNE	0	0	1	7	0	0	8
NE	1	0	1	0	0	0	2
ENE	0	0	1	0	0	0	1
E	1	1	1	0	0	0	3
ESE	0	2	0	0	0	0	2
SE	0	0	4	3	1	0	8
SSE	0	1	0	2	0	1	4
S	0	0	0	5	7	2	14
SSW	0	0	4	4	6	3	17
SW	0	2	6	1	5	0	14
WSW	0	0	7	8	2	0	17
W	0	0	6	6	2	1	15
WNW	0	2	7	16	13	4	42
NW	0	2	5	8	6	0	21
NNW	0	1	3	2	0	0	6
TOTAL	2	12	47	65	44	11	181

PERIODS OF CALM (hours): 1

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 100

TABLE 7 - continued

PERIOD OF RECORD: 86010101-86033124

STABILITY CLASS: ALL 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	2	3	36	55	22	0	118
NNE	2	14	22	28	3	0	69
NE	1	13	27	44	16	11	112
ENE	3	16	33	32	15	9	107
E	2	18	28	18	9	3	78
ESE	0	14	11	7	5	10	47
SE	1	4	12	12	6	6	41
SSE	0	2	7	11	10	10	40
S	1	2	5	19	26	11	64
SSW	0	3	20	30	50	66	169
SW	0	4	14	22	44	32	116
WSW	0	2	24	36	30	20	112
W	4	12	23	45	41	30	155
WNW	1	11	48	93	90	55	298
NW	2	11	36	138	140	61	388
NNW	2	9	27	67	39	2	146
TOTAL	20	138	373	657	546	326	2060

PERIODS OF CALM (hours): 1

VARIABLE DIRECTION: 3

HOURS OF MISSING DATA: 100

TABLE 8

Oyster Creek Meteorological Tower Joint Frequency Tables of Wind Speed and Wind Direction 380ft versus Delta Temperature 350-33ft for the period 4/1/86 - 6/30/86

PERIOD OF RECORD: 86040101-86063024

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	1	8	2	0	11
NNE	0	0	0	3	1	0	4
NE	0	0	3	14	10	3	30
ENE	0	0	4	21	4	1	30
E	0	1	5	9	0	0	15
ESE	0	0	7	1	0	0	8
SE	0	0	6	1	0	0	7
SSE	0	0	2	6	0	0	8
S	0	0	1	9	13	1	24
SSW	0	0	1	1	1	1	4
SW	0	0	3	3	1	0	7
WSW	0	0	1	3	4	0	8
W	0	0	2	4	4	0	10
WNW	0	0	2	17	8	6	33
NW	0	0	3	12	9	3	27
NNW	0	0	3	9	3	0	15
TOTAL	0	1	44	121	60	15	241

PERIODS OF CALM (hours): 0

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 36

TABLE 8 - continued

PERIOD OF RECORD: 86040101-86063024

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	1	3	2	0	0	6
NNE	0	0	0	0	1	0	1
NE	0	0	2	3	5	0	10
ENE	0	0	2	3	0	1	6
E	0	1	3	2	0	3	9
ESE	0	1	8	1	0	0	10
SE	0	0	4	1	0	0	5
SSE	0	0	3	4	1	0	8
S	0	0	2	13	8	0	23
SSW	0	0	4	5	3	1	13
SW	0	1	5	3	0	0	9
WSW	0	0	3	2	3	1	9
W	0	0	7	2	1	0	10
WNW	0	0	3	7	7	2	19
NW	0	0	4	6	4	1	15
NNW	0	0	5	5	2	0	12
TOTAL	0	4	58	59	35	9	165

PERIODS OF CALM (hours): 0

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 36

TABLE 8 - continued

PERIOD OF RECORD: 86040101-86063024

STABILITY CLASS: C 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	1	2	3	0	0	6
NNE	0	0	2	4	2	0	8
NE	1	1	2	4	4	3	15
ENE	0	1	1	0	0	0	2
E	0	3	4	4	0	3	14
ESE	0	3	8	1	2	3	17
SE	0	0	7	1	0	0	8
SSE	0	1	3	3	1	0	8
S	0	0	2	8	3	0	13
SSW	0	3	3	5	4	3	18
SW	0	0	4	4	0	0	8
WSW	0	1	2	6	0	0	9
W	0	3	4	6	1	0	14
WNW	0	1	5	5	5	1	17
NW	0	1	5	3	2	1	12
NNW	1	0	3	2	3	0	9
TOTAL	2	19	57	59	27	14	178

PERIODS OF CALM (hours): 0

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 36

TABLE 8 - continued

PERIOD OF RECORD: 86040101-86063024

STABILITY CLASS: D 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	2	8	4	5	0	0	19
NNE	1	7	6	8	5	9	36
NE	0	4	7	22	10	3	46
ENE	0	4	8	8	15	4	39
E	1	10	11	8	5	8	43
ESE	1	13	23	6	3	5	51
SE	1	12	18	2	0	0	33
SSE	0	7	17	9	3	2	38
S	0	4	25	23	18	3	73
SSW	1	2	15	49	30	4	101
SW	0	3	7	19	3	0	32
WSW	0	0	4	13	6	0	23
W	1	5	12	12	3	0	33
WNW	0	6	15	13	12	2	48
NW	0	3	9	16	38	0	66
NNW	1	4	4	7	13	0	29
TOTAL	9	92	185	220	164	40	710

PERIODS OF CALM (hours): 0

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 36

TABLE 8 - continued

PERIOD OF RECORD: 86040101-86063024

STABILITY CLASS: E 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	1	2	1	2	0	6
NNE	0	0	3	5	2	0	10
NE	1	2	1	5	2	0	11
ENE	0	1	1	4	0	1	7
E	1	1	3	1	0	0	6
ESE	0	5	5	2	3	0	15
SE	0	1	1	0	1	0	3
SSE	3	7	3	6	1	0	20
S	0	5	7	5	5	1	23
SSW	0	1	7	13	30	2	53
SW	1	0	4	18	35	6	64
WSW	0	1	6	12	12	2	33
W	0	1	7	16	17	1	42
WNW	0	2	4	13	11	0	30
NW	0	0	2	12	13	11	38
NNW	0	3	3	6	10	3	25
TOTAL	6	31	59	119	144	27	386

PERIODS OF CALM (hours): 0

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 36

TABLE 8 - continued

PERIOD OF RECORD: 86040101-86063024

STABILITY CLASS: F 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	5	4	7	2	18
NNE	0	0	4	4	0	0	8
NE	0	0	4	0	0	0	4
ENE	0	2	0	1	0	0	3
E	1	1	1	0	0	0	3
ESE	0	1	2	0	0	0	3
SE	2	1	1	0	1	0	5
SSE	0	0	2	1	0	0	3
S	1	2	5	1	0	0	9
SSW	1	1	3	4	2	0	11
SW	0	1	0	5	7	5	18
WSW	0	1	2	5	11	6	25
W	0	0	0	4	6	2	12
WNW	0	3	5	10	9	2	29
NW	0	0	4	5	10	3	22
NNW	1	1	1	14	21	8	46
TOTAL	6	14	39	58	74	28	219

PERIODS OF CALM (hours): 0

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 36

TABLE 8 - continued

PERIOD OF RECORD: 86040101-86063024

STABILITY CLASS: G 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	3	6	7	13	2	31
NNE	3	4	4	10	4	0	25
NE	1	1	7	2	1	0	12
ENE	2	3	3	1	0	0	9
E	1	3	2	0	0	0	6
ESE	0	2	0	0	0	0	2
SE	0	3	8	2	0	0	13
SSE	1	2	5	0	0	0	8
S	1	2	4	1	0	0	8
SSW	0	1	0	3	2	0	6
SW	1	4	0	8	0	0	13
WSW	1	2	3	6	6	3	21
W	0	5	4	6	3	5	23
WNW	1	2	8	4	3	2	20
NW	1	3	10	7	4	2	27
NNW	1	2	9	5	6	2	25
TOTAL	14	42	73	62	42	16	249

PERIODS OF CALM (hours): 0

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 36

TABLE 8 - continued

PERIOD OF RECORD: 86040101-86063024

STABILITY CLASS: ALL 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	2	14	23	30	24	4	97
NNE	4	11	19	34	15	9	92
NE	3	8	26	50	32	9	128
ENE	2	11	19	38	19	7	96
E	4	20	29	24	5	14	96
ESE	1	25	53	11	8	8	106
SE	3	17	45	7	2	0	74
SSE	4	17	35	29	6	2	93
S	2	13	46	60	47	5	173
SSW	2	8	33	80	72	11	206
SW	2	9	23	60	46	11	151
WSW	1	5	21	47	42	12	128
W	1	14	36	50	35	8	144
WNW	1	14	42	69	55	15	196
NW	1	7	37	61	80	21	207
NNW	4	10	28	48	58	13	161
TOTAL	37	203	515	698	546	149	2148

PERIODS OF CALM (hours): 0

VARIABLE DIRECTION: 0

HOURS OF MISSING DATA: 36

FIGURE 2
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JAN 1986 - MARCH 1986 (33' LEVEL)

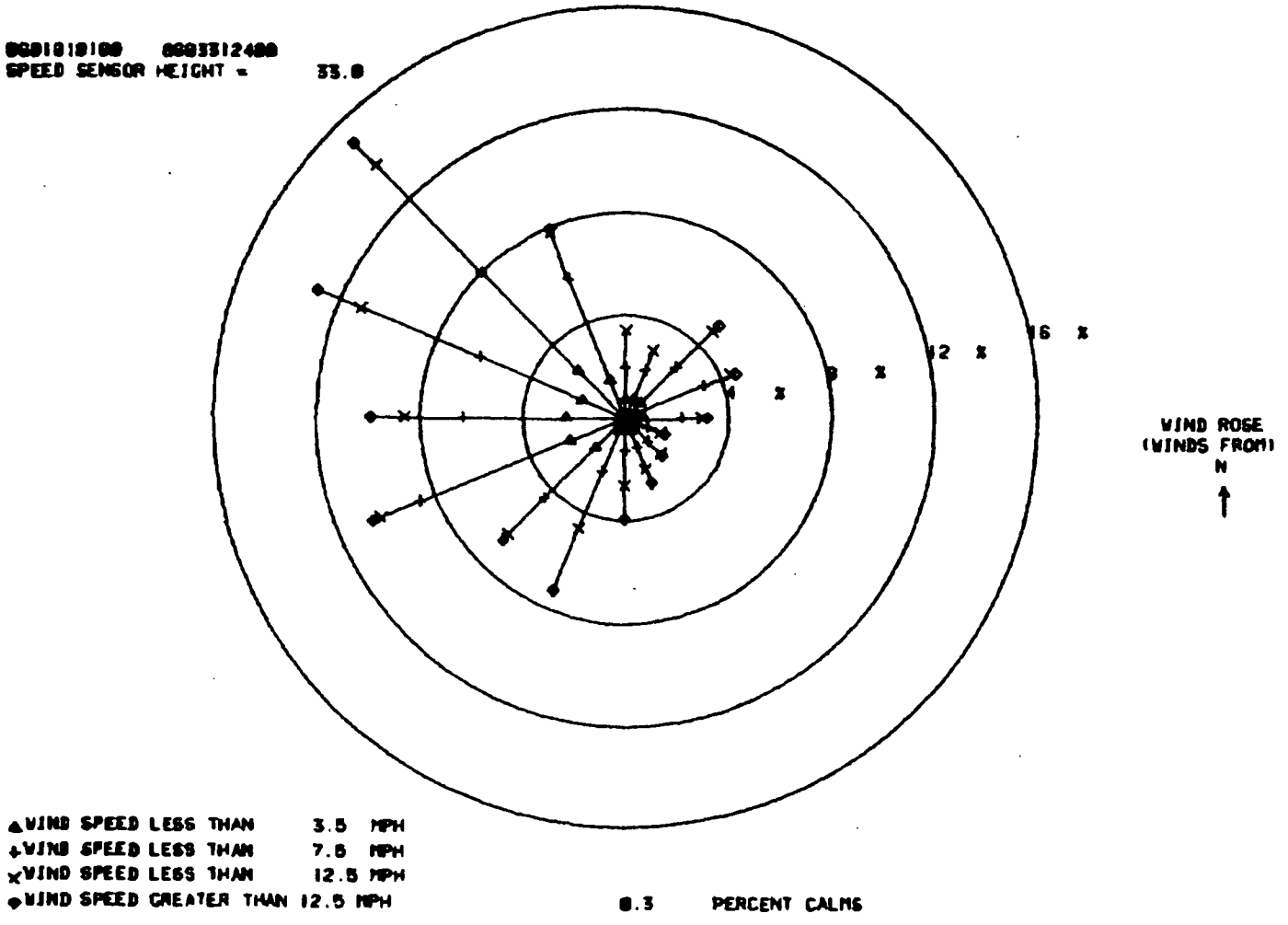


FIGURE 3
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
JAN 1986 - MARCH 1986 (380' LEVEL)

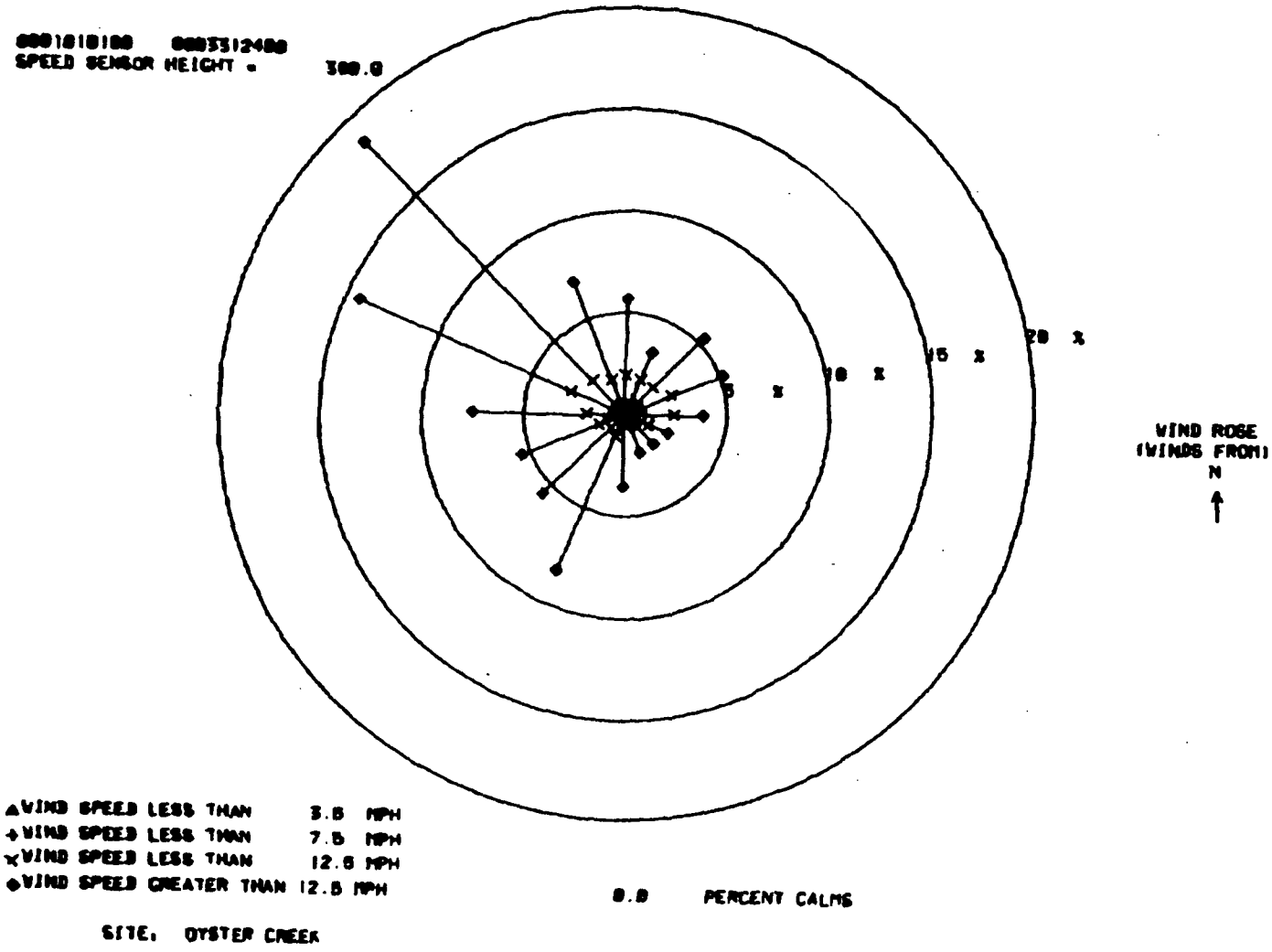


FIGURE 4
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
APRIL 1986 - JUNE 1986 (33' LEVEL)

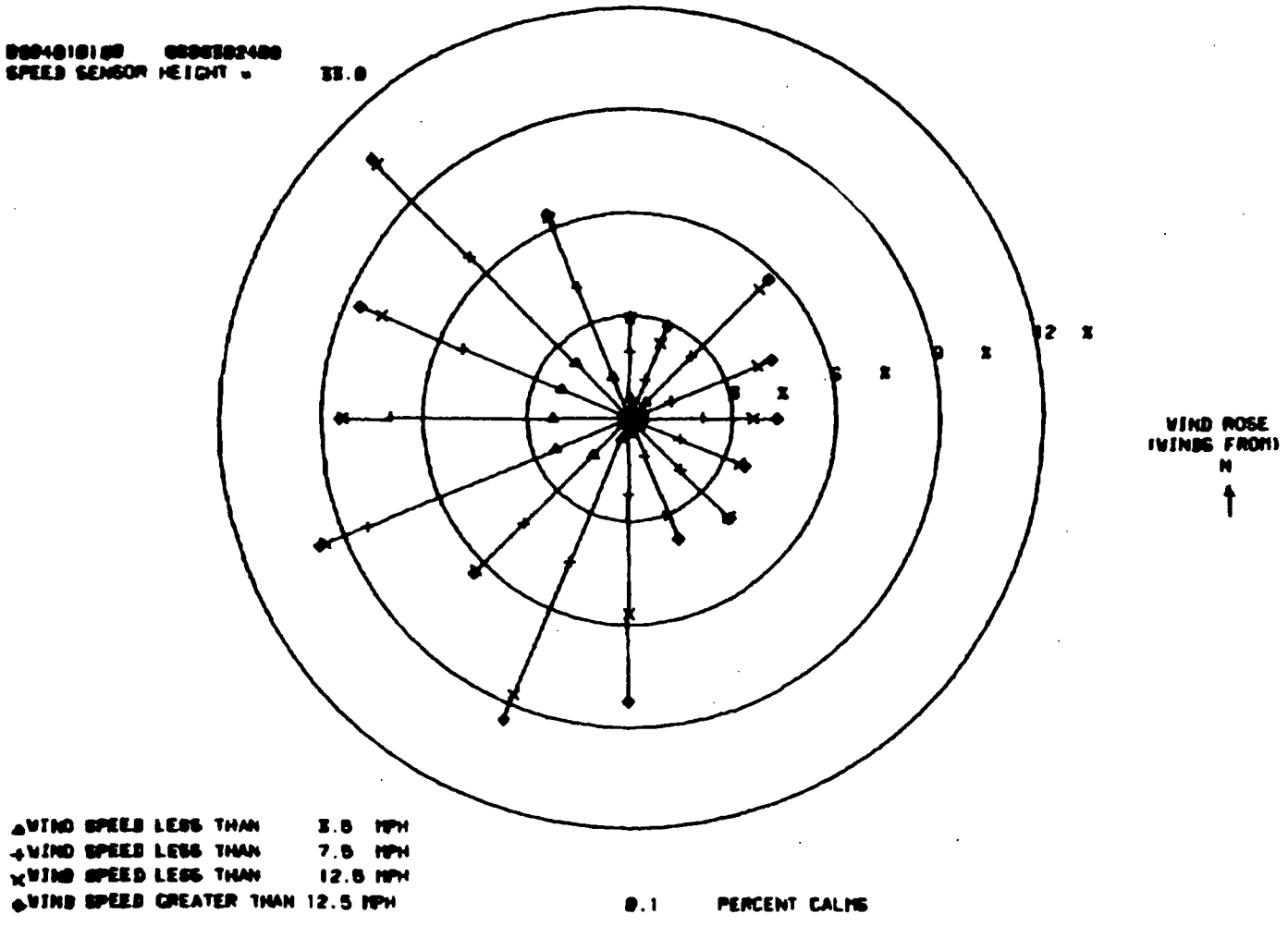


FIGURE 5
GPU NUCLEAR CORPORATION
OYSTER CREEK NUCLEAR GENERATING STATION
APRIL 1986 - JUNE 1986 (380' LEVEL)

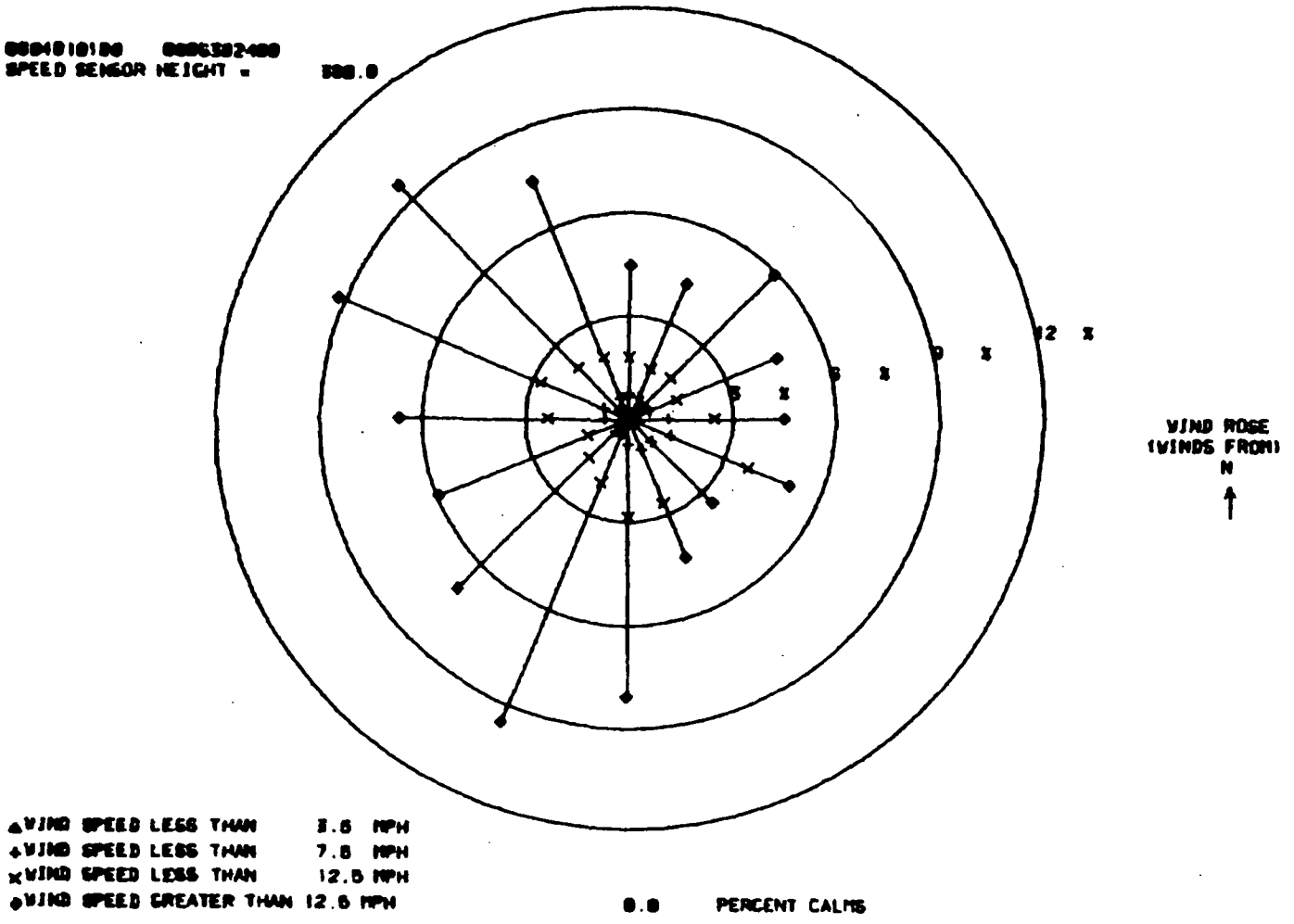


FIGURE 6

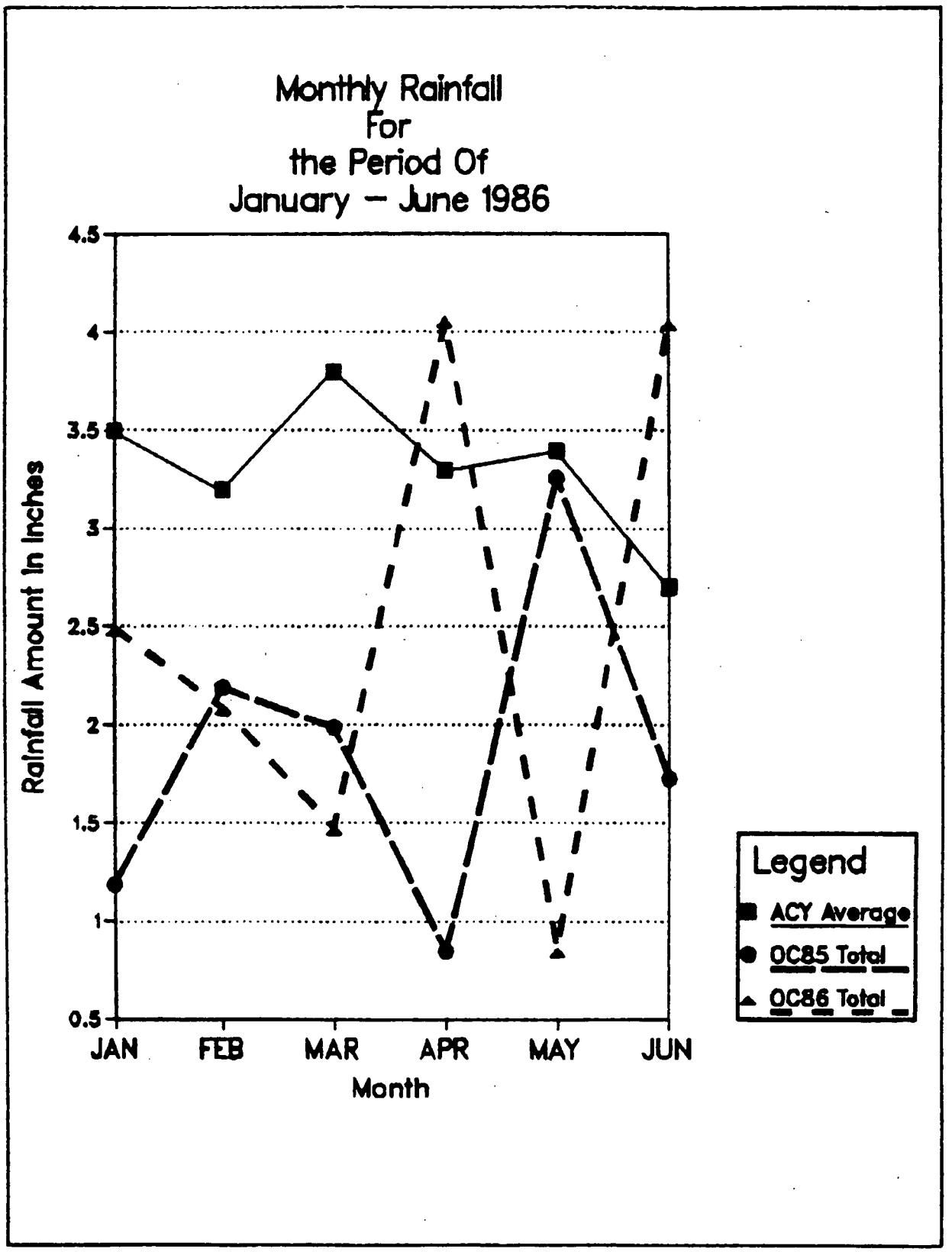

Monthly Rainfall
For
the Period Of
January – June 1986
Rainfall Amount In Inches
4.5
4
3.5
3
2.5
2
1.5
1
0.5
JAN
FEB
MAR
APR
MAY
JUN
Month
Legend
ACY Average
OC85 Total
OC86 Total

TABLE 9

METEOROLOGICAL DATA RECOVERY PERCENTAGE

FOR THE OYSTER CREEK NUCLEAR GENERATING STATION

METEOROLOGICAL TOWER

MONTH	33' RECOVERY (%)	380' RECOVERY (%)
JAN 86	97	98
FEB 86	94	94
MAR 86	91	94
APR 86	99	98
MAY 86	98	98
JUN 86	99	99
SIX MONTH AVERAGE	96	97

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 of the various environmental media at sample collection stations as outlined in Table 10 and Figures 7 and 8, pages 67 through 72.

Specifically, film badges and thermoluminescent dosimeters (TLDs) were analyzed for immersion dose. Particulate filters, air iodine cartridges, precipitation, vegetation, soil, and crops were analyzed for atmospheric radioactivity and fallout. Well water, surface water, aquatic sediment, and clams, fish, and crabs, as well as the aforementioned media, were analyzed because of their close association with either plant effluents and/or man's consumption. All results from these analyses are reported in Tables 11, 12, 14, 15, and 16, pages 73, 74, and 76 through 191.

During the sampling period, two film badges and TLD's were lost in the field. The following tables reflect this absence.

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
Fish/ingestion	Grab
Crab/ingestion	Grab

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

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

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

Data

Tables 11 through 16, found on pages 73 through 191, 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 NGS, OC Meteorological Tower and Fire Pond	APT, AIO, RG, RWA, VGTN, SOIL, WWA
T1	Forked River, N.J. - Oyster Creek Meteorological Tower and Fire Pond	RG
2	Pinewald, N.J. - Route #9 at JCP&L Company Pinewald Substation north of Forked River, N.J.	APT, AIO, RG, RWA, VGTN, SOIL
3	Island Beach State Park, N.J. - Near old Coast Guard Station	APT, AIO, RG, RWA, VGTN, SOIL
4	Barnegat, N. J. - Route #554, West of Garden State Parkway Southbound Lanes	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 and Gilford Avenue	RG
11	Harvey Cedars, N.J. - 80th Street and Anchor Street, at Water Tower	RG
12	Cedar Run, N.J. - Access Road to Atlantic Electric's Combustion Turbine Generating Station, off Route 9, South of Route 72	RG

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

STATION NUMBER		SAMPLE COLLECTED
13	South Toms River, N.J. - Dover Road, next to last pole traveling West on North side	RG
14	Lakewood, N.J. - Larrabee Substation, just off Route #547 on Randolph Road	RG
15	New Egypt, N.J. - Route #539, last pole on South side, adjacent to "Bomarc" Site	RG
16	Intersection of Route #563 and Route #72, two poles South	RG
17	New Gretna, N.J. - Route #563, 2 miles North, next to High Voltage Line	RG
18	Forked River, N.J. - Lacey Road, Townsend's Marina	WWA
19	Forked River, N.J. - 1015 Inland Road, Forked River Beach	WWA
20	Forked River, N.J. - Finninger Farm at Environmental Lab	WWA
21	Waretown, N.J. - 215 Dock Avenue, Sands Point Harbor	WWA
22	Waretown, N.J. - 27 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 #554 and the Garden State Parkway	CROP
30	Forked River, N.J. - Finninger Farm	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
93	Oyster Creek - Just West of the confluence of freshwater Oyster Creek	SWA, AQS, FISH, CRAB
94	Great Bay - Approximately 1/2 mile from the Southern tip of Seven Island on an approximate 240 degree true heading	SWA, AQS, CLAM, FISH, CRAB

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

STATION NUMBER		SAMPLE COLLECTED
A	Allenhurst, N.J. - West of Substation on Main Street, North of JCP&L Service Building #4	APT, AIO, RG, RWA
C	Cookstown, N.J. - Route #528 Spur, at JCP&L Company District Dispatcher	APT, AIO, RG, RWA
H	Hammonton, NJ - 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

FISH = Fish

CRAB = Bluecrab

FIGURE 7
MAP OF REMP INDICATOR STATIONS

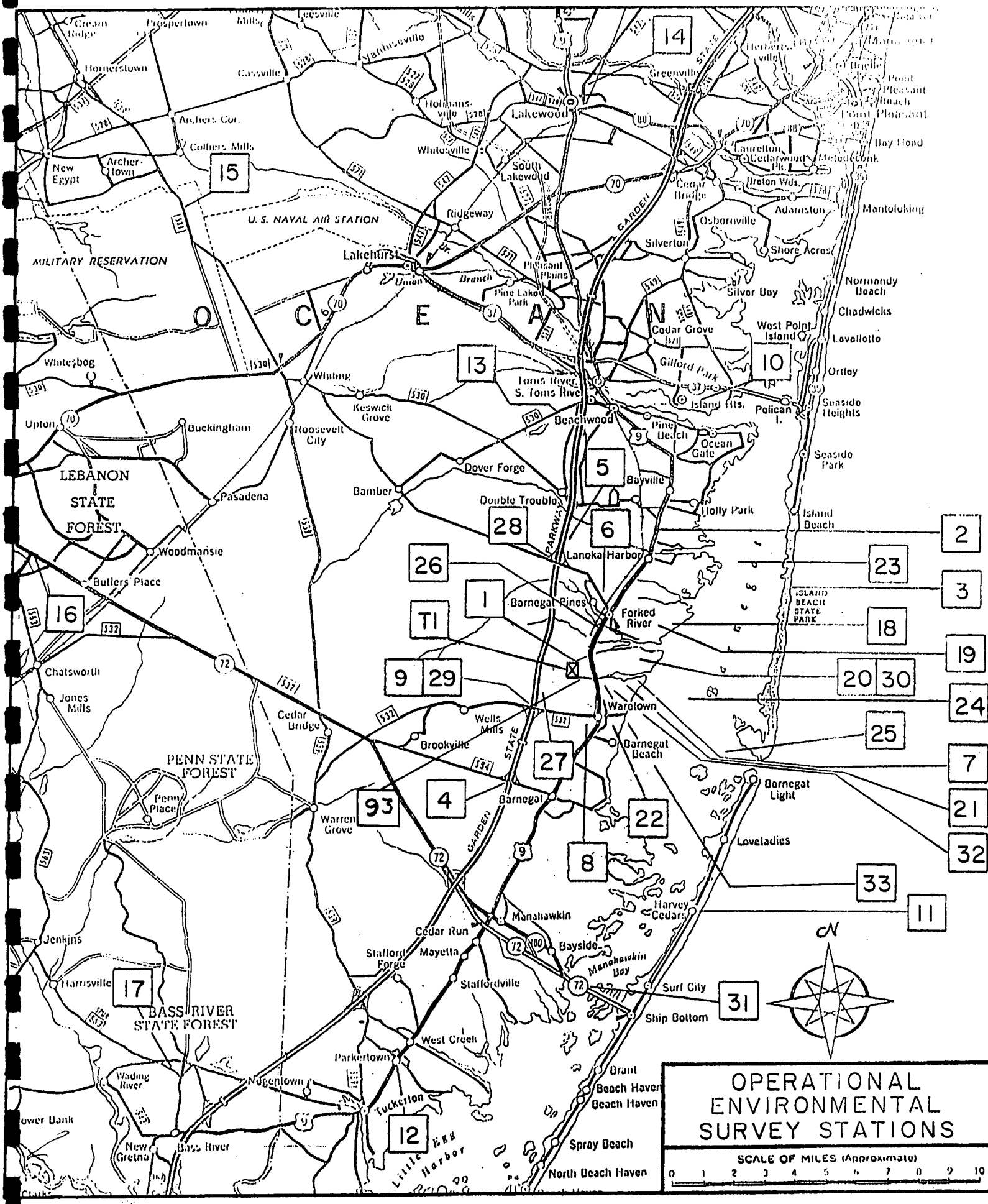


FIGURE 8
MAP OF REMP INDICATOR AND BACKGROUND STATIONS

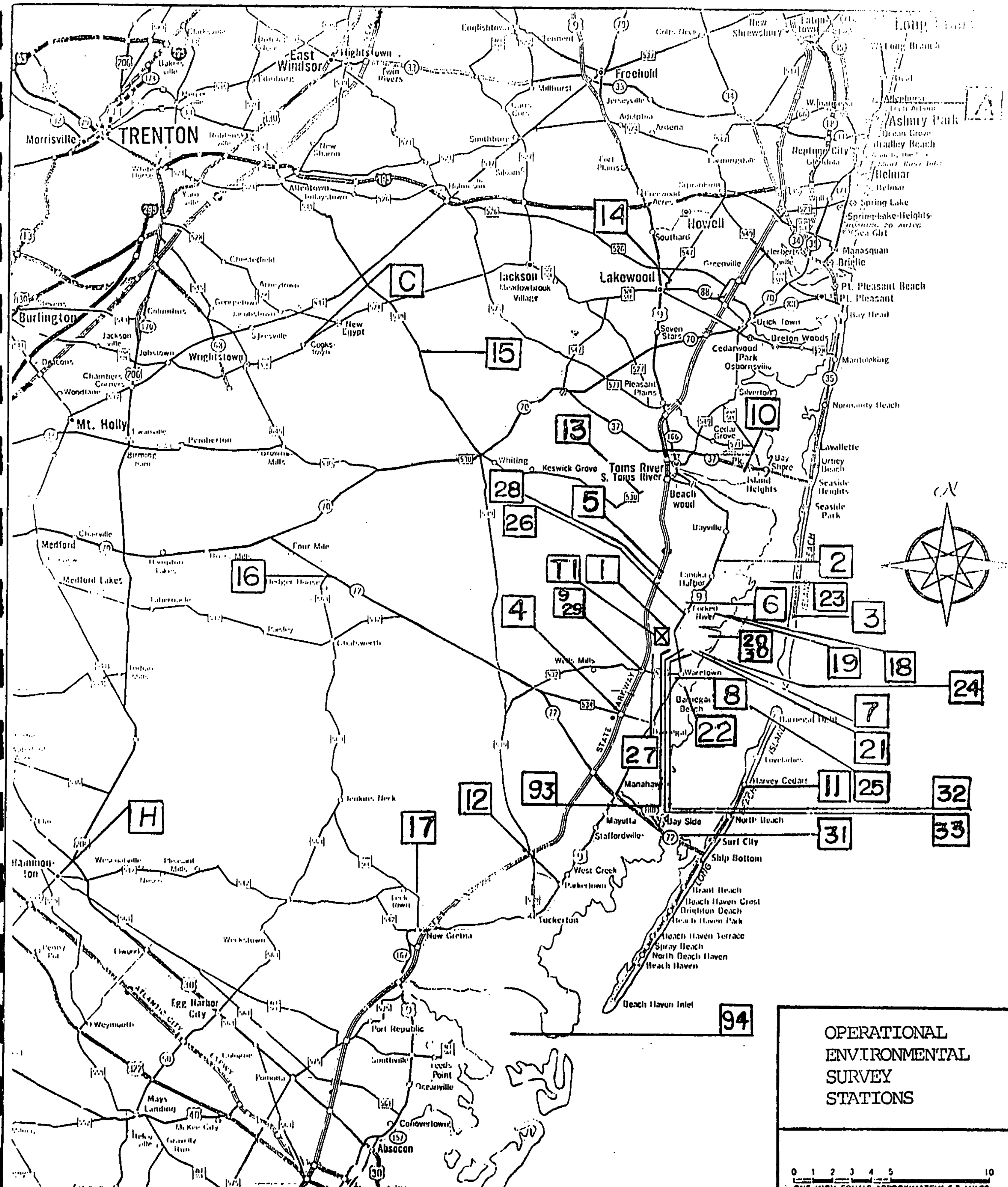


Table 11
Radiogas Film Badges
Scheduled Collection Period
December, 1985 through June, 1986

Collection Date		12-2-85	12-30-85	1-27-86	2-24-86	Four	3-24-86	4-21-86	5-19-86	6-16-86	Four	Eight
Station	Unit					Month Total					Month Total	Month Total
1	Millirem	0	0	0	0	0	0	0	0	0	0	0
T1	Millirem	0	0	0	0	0	0	0	0	0	0	0
2	Millirem	0	0	0	0	0	0	0	0	0	0	0
3	Millirem	0	0	0	0	0	0	0	0	0	0	0
4	Millirem	0	0	0	0	0	0	0	0	0	0	0
5	Millirem	0	0	0	0	0	0	0	0	0	0	0
6	Millirem	0	0	0	0	0	0	0	0	0	0	0
7	Millirem	0	0	0	0	0	0	0	0	0	0	0
8	Millirem	0	0	0	0	0	0	0	0	0	0	0
9	Millirem	0	0	0	0	0	0	0	0	0	0	0
10	Millirem	0	0	0	0	0	0	0	0	0	0	0
11	Millirem	0	0	0	0	0	0	0	0	0	0	0
12	Millirem	0	0	0	0	0	0	0	0	0	0	0
13	Millirem	0	0	0	0	0	0	0	0	0	0	0
14	Millirem	0	0	0	0	0	0	LOST	0	0	-	-
15	Millirem	0	0	0	0	0	0	0	0	0	0	0
16	Millirem	0	0	0	0	0	0	0	0	0	0	0
17	Millirem	0	0	0	0	0	0	LOST	0	0	-	-
A	Millirem	0	0	0	0	0	0	0	0	0	0	0
C	Millirem	0	0	0	0	0	0	0	0	0	0	0
H	Millirem	0	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
DECEMBER, 1985 THROUGH JUNE, 1986 (MONTHLY TLD READINGS)

MONTH:	DECEMBER		DECEMBER		JANUARY		FEBRUARY			MARCH		APRIL		MAY		JUNE			
STATION	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	4-MO TOT	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	COLLECT DATE	DOSE	4-MO TOT	8-MO TOT
A	03DEC85	6.9	31DEC85	7.2	29JAN86	6.7	25FEB86	6.6	27.4	26MAR86	7.6	22APR86	8.6	19MAY86	7.3	18JUN86	6.9	37.0	57.8
C	02DEC85	6.5	30DEC85	6.8	27JAN86	6.2	24FEB86	5.9	25.4	25MAR86	6.3	21APR86	7.1	19MAY86	6.6	16JUN86	7.1	33.0	52.5
H	02DEC85	5.9	30DEC85	6.4	27JAN86	5.8	24FEB86	5.7	23.8	25MAR86	5.7	21APR86	6.8	19MAY86	6.4	16JUN86	6.9	31.5	49.6
1	05DEC85	7.8	31DEC85	9.6	28JAN86	8.2	27FEB86	7.7	33.3	27MAR86	8.5	23APR86	8.0	19MAY86	7.2	17JUN86	6.9	38.3	63.9
2	05DEC85	5.9	03JAN86	6.2	28JAN86	6.2	27FEB86	5.4	23.7	26MAR86	6.2	23APR86	6.7	20MAY86	6.5	18JUN86	6.5	31.3	49.6
3	03DEC85	6.3	02JAN86	6.4	29JAN86	6.0	25FEB86	6.0	24.7	26MAR86	5.5	22APR86	6.8	19MAY86	6.7	17JUN86	6.5	31.5	50.2
4	04DEC85	5.6	03JAN86	5.7	30JAN86	5.9	28FEB86	5.3	22.5	25MAR86	6.7	21APR86	6.1	19MAY86	6.2	16JUN86	6.5	30.8	48.0
5	05DEC85	6.1	31DEC85	7.0	28JAN86	5.8	27FEB86	5.5	24.4	24MAR86	6.8	22APR86	6.5	19MAY86	6.7	17JUN86	6.5	32.0	50.9
6	02DEC85	6.3	31DEC85	6.5	31JAN86	5.8	24FEB86	6.7	25.3	27MAR86	5.6	23APR86	6.8	23MAY86	6.2	17JUN86	7.3	32.6	51.2
7	04DEC85	6.1	06JAN86	6.5	31JAN86	6.6	27FEB86	6.1	25.3	27MAR86	6.3	23APR86	6.8	21MAY86	6.2	19JUN86	6.2	31.6	50.8
8	02DEC85	6.0	06JAN86	5.2	31JAN86	6.2	24FEB86	6.4	23.8	27MAR86	5.6	21APR86	7.4	21MAY86	5.7	19JUN86	6.4	31.5	48.9
9	04DEC85	6.6	06JAN86	6.0	31JAN86	6.7	27FEB86	6.3	25.6	27MAR86	6.4	23APR86	7.2	21MAY86	6.7	19JUN86	7.0	33.6	52.9
T1	05DEC85	7.5	31DEC85	9.6	28JAN86	8.2	27FEB86	7.8	33.1	27MAR86	8.4	23APR86	8.1	21MAY86	6.8	17JUN86	7.7	38.8	64.1
10	03DEC85	6.2	02JAN86	6.0	31JAN86	5.3	25FEB86	6.5	24.0	26MAR86	6.0	22APR86	6.5	22MAY86	6.0	17JUN86	7.0	32.0	49.5
11	04DEC85	5.9	06JAN86	5.5	30JAN86	6.4	28FEB86	5.6	23.4	31MAR86	5.3	24APR86	7.2	20MAY86	6.7	19JUN86	6.2	31.0	48.8
12	02DEC85	6.5	30DEC85	6.9	30JAN86	5.5	24FEB86	6.6	25.5	31MAR86	5.3	21APR86	8.6	20MAY86	6.3	16JUN86	7.2	34.0	52.9
13	03DEC85	5.9	02JAN86	5.9	31JAN86	5.3	25FEB86	6.1	23.2	27MAR86	5.8	22APR86	6.5	22MAY86	5.9	17JUN86	7.0	31.3	48.4
14	03DEC85	7.1	31DEC85	7.5	29JAN86	6.4	25FEB86	6.7	27.7	26MAR86	6.7	TLD LOST		22MAY86	7.1	17JUN86	8.5	29.0	50.0
15	02DEC85	6.0	30DEC85	6.6	27JAN86	5.6	24FEB86	5.6	23.8	25MAR86	5.8	21APR86	6.7	19MAY86	6.2	16JUN86	6.6	30.9	49.1
16	04DEC85	5.9	06JAN86	5.5	30JAN86	6.0	28FEB86	5.5	22.9	31MAR86	5.4	23APR86	7.5	20MAY86	6.3	19JUN86	6.1	30.8	48.2
17	02DEC85	6.1	30DEC85	6.7	27JAN86	5.8	24FEB86	5.8	24.4	25MAR86	5.9	TLD LOST		20MAY86	6.2	16JUN86	5.6	23.5	42.1

TABLE 13
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986

THE FOLLOWING PAGES ARE A SUMMARY OF REMP DATA FOR THE SCHEDULED COLLECTION PERIOD DECEMBER,1985 THRU JUNE,1986. 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	31,94	18
SAMPLE TYPE	AIR PARTICULATE	SEDIMENT	WELL WATER
	AIR IODINE	CLAMS	
	PRECIPITATION	SURFACE WATER	
		FISH (**)	
		BLUE CRAB (**)	

6.) *=NO DATA SAMPLED ; **=STATION 94 ONLY

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
VEGETATION (PCI/KG(WET))	GROSS BETA		40	4.85E+01	5.84E+03 (40 /40) (1.57E+03 - 4.17E+04)		* (* /*) (* - *)	1 2 3 4 5
						1	7.93E+03(8 /8) (1.57E+03 - 4.17E+04)	
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		153	5.30E-04	1.15E-03 (66 /95) (4.47E-04 - 2.37E-03)		1.08E-03(43 /58) (4.68E-04 - 2.31E-03)	1 2 3 4 5
						5	1.24E-03(14 /19) (5.85E-04 - 2.37E-03)	
AIR PARTICULATE (PCI/M3)	GROSS BETA		153	1.60E-03	5.00E-02 (95 /95) (7.37E-03 - 2.88E-01)		5.15E-02(58 /58) (5.46E-03 - 2.58E-01)	1 2 3 4 5
						2	5.78E-02(19 /19) (9.55E-03 - 2.88E-01)	
AIR PARTICULATE (PCI/M3)	GAMMA	CE-144	153	1.88E-02	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	CS-134	153	4.92E-03	2.73E-02 (21 /95) (9.50E-03 - 6.10E-02)		2.97E-02(12 /58) (1.70E-02 - 4.40E-02)	1 2 3 4 5
						3	3.30E-02(3 /19) (1.70E-02 - 4.60E-02)	
AIR PARTICULATE (PCI/M3)	GAMMA	CO-58	153	3.57E-03	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	MN-54	153	3.16E-03	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	FE-59	153	8.45E-03	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	ZN-65	153	7.37E-03	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	CO-60	153	3.67E-03	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	K-40	153	7.34E-02	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	BE-7	153	5.68E-02	1.42E-01 (86 /95) (6.50E-02 - 2.60E-01)		1.50E-01(56 /58) (5.20E-02 - 3.30E-01)	1 2 3 4 5
						2	1.67E-01(17 /19) (8.40E-02 - 2.60E-01)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	ZR-95	153	7.70E-03	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	NB-95	153	3.91E-03	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	CE-141	153	6.45E-03	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	RU-103	153	6.43E-03	4.25E-02 (25 /95) (1.50E-02 - 7.10E-02)		4.03E-02(18 /58) (3.70E-03 - 7.50E-02)	1 2 3 4 5
						3	4.70E-02(5 /19) (2.10E-02 - 7.10E-02)	
AIR PARTICULATE (PCI/M3)	GAMMA	BA-140	153	2.69E-02	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	LA-140	153	1.36E-02	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	RA-226	153	5.65E-02	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	TH-228	153	5.78E-03	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	I-131	153	2.52E-02	1.40E-01 (5 /95) (1.20E-01 - 1.70E-01)		1.70E-01(3 /58) (1.60E-01 - 1.90E-01)	1 2 3 4 5
						2	1.70E-01(1 /19) (1.70E-01 - 1.70E-01)	
AIR PARTICULATE (PCI/M3)	GAMMA	RU-106	153	3.04E-02	< LLD (0 /95)		< LLD (0 /58)	1 2 3 4 5
						5	< LLD (0 /19)	
AIR PARTICULATE (PCI/M3)	GAMMA	CS-137	153	5.85E-03	5.40E-02 (25 /95) (2.30E-02 - 9.60E-02)		5.64E-02(14 /58) (1.90E-02 - 9.60E-02)	1 2 3 4 5
						2	5.92E-02(5 /19) (3.10E-02 - 9.60E-02)	
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		24	6.83E-04	1.89E-03 (2 /15) (1.74E-03 - 2.05E-03)		1.65E-03(2 /9) (1.60E-03 - 1.71E-03)	1 2 3 4 5
						3	2.05E-03(1 /3) (2.05E-03 - 2.05E-03)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	STRONTIUM-90		24	8.34E-05	1.40E-04 (3 /15) (1.26E-04 - 1.59E-04)		1.21E-04(1 /9) (1.21E-04 - 1.21E-04)	1 2 3 4 5
						1	1.59E-04(1 /3) (1.59E-04 - 1.59E-04)	
PRECIPITATION (PCI/L)	GROSS BETA-SS		71	1.67E+00	4.58E+00 (19 /45) (7.68E-01 - 3.58E+01)		4.48E+00(15 /26) (7.44E-01 - 2.65E+01)	1 2 3 4 5
						2	1.29E+01(3 /9) (1.17E+00 - 3.58E+01)	
PRECIPITATION (PCI/L)	GROSS BETA-DS		71	1.85E+00	9.38E+00 (43 /45) (1.37E+00 - 8.02E+01)		7.38E+00(26 /26) (2.02E+00 - 2.23E+01)	1 2 3 4 5
						2	1.58E+01(9 /9) (3.35E+00 - 8.02E+01)	
PRECIPITATION (PCI/L)	GAMMA	CE-144	67	3.77E+01	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	CS-134	67	4.80E+00	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	CO-58	67	4.68E+00	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	MN-54	67	4.39E+00	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	FE-59	67	1.03E+01	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	ZN-65	67	9.28E+00	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	CO-60	67	4.68E+00	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	K-40	67	7.96E+01	8.20E+01 (1 /43) (8.20E+01 - 8.20E+01)		< LLD (0 /24)	1 2 3 4 5
						3	8.20E+01(1 /9) (8.20E+01 - 8.20E+01)	
PRECIPITATION (PCI/L)	GAMMA	BE-7	67	5.46E+01	7.71E+01 (15 /43) (2.80E+01 - 1.30E+02)		6.17E+01(8 /24) (2.80E+01 - 1.10E+02)	1 2 3 4 5
						5	8.85E+01(4 /8) (6.50E+01 - 1.30E+02)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	ZR-95	67	1.02E+01	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	NB-95	67	5.17E+00	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	CE-141	67	1.15E+01	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	RU-103	67	6.26E+00	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	BA-140	67	3.10E+01	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	LA-140	67	1.26E+01	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	RA-226	67	1.06E+02	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	TH-228	67	1.00E+01	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	I-131	67	3.01E+01	< LLD (0 /43)		2.00E+01(1 /24) (2.00E+01 - 2.00E+01)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	RU-106	67	4.12E+01	< LLD (0 /43)		< LLD (0 /24)	1 2 3 4 5
						5	< LLD (0 /8)	
PRECIPITATION (PCI/L)	GAMMA	CS-137	67	4.87E+00	8.77E+00 (3 /43) (1.60E+00 - 1.60E+01)		< LLD (0 /24)	1 2 3 4 5
						3	1.60E+01(1 /9) (1.60E+01 - 1.60E+01)	
PRECIPITATION (PCI/L)	TRITIUM		71	7.95E+01	1.32E+02 (8 /45) (6.72E+01 - 2.59E+02)		1.01E+02(3 /26) (7.14E+01 - 1.18E+02)	1 2 3 4 5
						1	1.83E+02(4 /9) (8.94E+01 - 2.59E+02)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	STRONTIUM-89		71	2.74E+00	< LLD (0 /45)		< LLD (0 /26)	1 2 3 4 5
						5	< LLD (0 /9)	
PRECIPITATION (PCI/L)	STRONTIUM-90		71	6.41E-01	< LLD (0 /45)		< LLD (0 /26)	1 2 3 4 5
						5	< LLD (0 /9)	
AIR IODINE (PCI/M3)	IODINE-131		152	2.58E-02	3.09E-01 (22 /95) (2.34E-02 - 8.07E-01)		2.54E-01(16 /57) (2.33E-02 - 1.25E+00)	1 2 3 4 5
						1	3.67E-01(4 /19) (8.51E-02 - 7.94E-01)	
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		69	5.49E-01	8.25E-01 (1 /59) (8.25E-01 - 8.25E-01)		5.51E-01(1 /10) (5.51E-01 - 5.51E-01)	23 24 25 26 27 32 33 93
						23	8.25E-01(1 /8) (8.25E-01 - 8.25E-01)	
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		69	1.62E+00	2.05E+00 (20 /59) (9.78E-01 - 5.21E+00)		2.08E+00(1 /10) (2.08E+00 - 2.08E+00)	23 24 25 26 27 32 33 93
						93	5.21E+00(1 /3) (5.21E+00 - 5.21E+00)	
SURFACE WATER (PCI/L)	GROSS BETA-SS		69	7.34E-01	1.15E+00 (8 /59) (7.36E-01 - 2.76E+00)		8.74E-01(3 /10) (7.53E-01 - 1.03E+00)	23 24 25 26 27 32 33 93
						23	2.76E+00(1 /8) (2.76E+00 - 2.76E+00)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GROSS BETA-DS		69	3.41E+01	2.46E+02 (59 /59) (7.82E-01 - 6.38E+02)		3.64E+02(9 /10) (2.14E+02 - 5.12E+02)	23 24 25 26 27 32 33 93
						25	4.49E+02(8 /8) (3.16E+02 - 6.38E+02)	
SURFACE WATER (MG/L)	CALCIUM BY AA		69	1.00E+01	6.10E+02 (47 /59) (1.33E+01 - 1.13E+03)		7.22E+02(10 /10) (4.26E+02 - 1.00E+03)	23 24 25 26 27 32 33 93
						93	7.32E+02(3 /3) (5.98E+02 - 8.92E+02)	
SURFACE WATER (PCI/L)	GAMMA	CE-144	69	2.54E+01	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	CS-134	69	3.31E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	CO-58	69	3.25E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	MN-54	69	3.04E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GAMMA	FE-59	69	7.26E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	ZN-65	69	6.65E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	CO-60	69	3.26E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	K-40	69	7.27E+01	2.00E+02 (28 /59) (1.90E+01 - 2.90E+02)		2.25E+02(8 /10) (1.70E+01 - 3.20E+02)	23 24 25 26 27 32 33 93
						25	2.36E+02(5 /8) (2.10E+02 - 2.70E+02)	
SURFACE WATER (PCI/L)	GAMMA	BE-7	69	3.31E+01	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	ZR-95	69	7.08E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GAMMA	NB-95	69	3.59E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	CE-141	69	7.69E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	RU-103	69	4.23E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	BA-140	69	2.15E+01	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	LA-140	69	8.75E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	RA-226	69	7.23E+01	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GAMMA	TH-228	69	6.63E+00	1.90E+01 (1 /59) (1.90E+01 - 1.90E+01)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						23	1.90E+01(1 /8) (1.90E+01 - 1.90E+01)	
SURFACE WATER (PCI/L)	GAMMA	I-131	69	1.91E+01	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	RU-106	69	2.76E+01	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	GAMMA	CS-137	69	3.26E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	TRITIUM		69	7.68E+01	6.92E+01 (5 /59) (6.19E+01 - 8.05E+01)		1.19E+02(2 /10) (7.59E+01 - 1.62E+02)	23 24 25 26 27 32 33 93
						32	8.05E+01(1 /8) (8.05E+01 - 8.05E+01)	
SURFACE WATER (PCI/L)	RADIUM-226		69	2.00E-01	5.20E-01 (39 /59) (1.24E-01 - 2.32E+00)		5.79E-01(2 /10) (4.38E-01 - 7.21E-01)	23 24 25 26 27 32 33 93
						25	1.05E+00(3 /8) (1.68E-01 - 2.32E+00)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	RADIUM-228		69	4.88E-01	8.27E-01 (8 /59) (2.21E-01 - 1.86E+00)		9.61E-01(1 /10) (9.61E-01 - 9.61E-01)	23 24 25 26 27 32 33 93
						24	1.04E+00(2 /8) (2.21E-01 - 1.86E+00)	
SURFACE WATER (PCI/L)	STRONTIUM-89		69	2.88E+00	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	STRONTIUM-90		69	7.80E-01	< LLD (0 /59)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SURFACE WATER (PCI/L)	TOTAL URANIUM		69	3.40E-02	1.30E+00 (59 /59) (4.01E-02 - 4.37E+00)		2.63E+00(10 /10) (1.33E+00 - 5.64E+00)	23 24 25 26 27 32 33 93
						25	2.01E+00(8 /8) (1.24E+00 - 4.37E+00)	
WELL WATER (PCI/L)	GROSS ALPHA-SS		48	4.54E-01	< LLD (0 /40)		< LLD (0 /8)	1 19 20 21 22
						22	< LLD (0 /8)	
WELL WATER (PCI/L)	GROSS ALPHA-DS		48	8.97E-01	1.60E+00 (20 /40) (7.28E-01 - 3.41E+00)		1.78E+00(8 /8) (1.41E+00 - 2.27E+00)	1 19 20 21 22
						21	2.37E+00(6 /8) (1.59E+00 - 3.41E+00)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GROSS BETA-SS		48	7.30E-01	< LLD (0 /40)		< LLD (0 /8)	1 19 20 21 22
						22	< LLD (0 /8)	
WELL WATER (PCI/L)	GROSS BETA-DS		48	8.92E-01	3.09E+00 (39 /40) (8.53E-01 - 4.84E+00)		3.11E+00(8 /8) (2.46E+00 - 5.13E+00)	1 19 20 21 22
						21	3.94E+00(8 /8) (2.75E+00 - 4.84E+00)	
WELL WATER (PCI/L)	POTASSIUM-40		18	1.37E-01	1.67E+00 (14 /15) (1.51E-01 - 2.55E+00)		3.65E+00(3 /3) (9.96E-01 - 8.92E+00)	1 19 20 21 22
						19	2.24E+00(3 /3) (1.89E+00 - 2.55E+00)	
WELL WATER (PCI/L)	GAMMA	CE-144	18	2.68E+01	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	CS-134	18	3.53E+00	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	CO-58	18	3.41E+00	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	MN-54	18	3.21E+00	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	FE-59	18	7.38E+00	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	ZN-65	18	7.25E+00	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	CO-60	18	3.43E+00	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	K-40	18	6.71E+01	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	BE-7	18	3.46E+01	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
						STATION	STATION-MEAN(N/TOTAL) RANGE		
WELL WATER (PCI/L)	GAMMA	ZR-95	18	7.39E+00	< LLD	(0 /15)	< LLD	(0 /3)	1 19 20 21 22
						22	< LLD	(0 /3)	
WELL WATER (PCI/L)	GAMMA	NB-95	18	3.81E+00	< LLD	(0 /15)	< LLD	(0 /3)	1 19 20 21 22
						22	< LLD	(0 /3)	
WELL WATER (PCI/L)	GAMMA	CE-141	18	7.56E+00	< LLD	(0 /15)	< LLD	(0 /3)	1 19 20 21 22
						22	< LLD	(0 /3)	
WELL WATER (PCI/L)	GAMMA	RU-103	18	4.40E+00	< LLD	(0 /15)	< LLD	(0 /3)	1 19 20 21 22
						22	< LLD	(0 /3)	
WELL WATER (PCI/L)	GAMMA	BA-140	18	1.99E+01	< LLD	(0 /15)	< LLD	(0 /3)	1 19 20 21 22
						22	< LLD	(0 /3)	
WELL WATER (PCI/L)	GAMMA	LA-140	18	8.08E+00	< LLD	(0 /15)	< LLD	(0 /3)	1 19 20 21 22
						22	< LLD	(0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	RA-226	18	7.57E+01	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	TH-228	18	6.80E+00	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	I-131	18	1.68E+01	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	RU-106	18	3.04E+01	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	
WELL WATER (PCI/L)	GAMMA	CS-137	18	3.59E+00	< LLD (0 /15)		< LLD (0 /3)	1 19 20 21 22
						22	< LLD (0 /3)	
WELL WATER (PCI/L)	TRITIUM		18	8.22E+01	1.48E+02 (1 /15) (1.48E+02 - 1.48E+02)		< LLD (0 /3)	1 19 20 21 22
						22	1.48E+02(1 /3) (1.48E+02 - 1.48E+02)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH JUNE, 1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	RADIUM-226		18	1.81E-01	7.81E-01 (15 /15) (1.09E-01 - 1.94E+00)		4.82E-01(3 /3) (3.99E-01 - 6.37E-01)	1 19 20 21 22
						21	1.64E+00(3 /3) (1.35E+00 - 1.94E+00)	
WELL WATER (PCI/L)	RADIUM-228		18	3.80E-01	9.52E-01 (7 /15) (2.83E-01 - 1.79E+00)		1.00E+00(3 /3) (7.53E-01 - 1.21E+00)	1 19 20 21 22
						21	1.34E+00(2 /3) (8.86E-01 - 1.79E+00)	
WELL WATER (PCI/L)	TOTAL URANIUM		18	3.40E-02	5.66E-02 (4 /15) (5.03E-02 - 6.85E-02)		1.02E-01(1 /3) (1.02E-01 - 1.02E-01)	1 19 20 21 22
						1	6.85E-02(1 /3) (6.85E-02 - 6.85E-02)	
BLUE CRAB (PCI/KG(WET))	GROSS ALPHA		3	4.60E+01	6.03E+01 (2 /2) (4.50E+01 - 7.56E+01)		< LLD (0 /1)	33 93
						93	7.56E+01(1 /1) (7.56E+01 - 7.56E+01)	
BLUE CRAB (PCI/KG(WET))	GROSS BETA		3	6.83E+01	5.48E+03 (2 /2) (5.31E+03 - 5.65E+03)		5.77E+03(1 /1) (5.77E+03 - 5.77E+03)	33 93
						33	5.65E+03(1 /1) (5.65E+03 - 5.65E+03)	
BLUE CRAB (PCI/KG(WET))	GAMMA	CE-144	3	5.67E+01	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH JUNE, 1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
BLUE CRAB (PCI/KG(WET))	GAMMA	CS-134	3	7.63E+00	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	CO-58	3	7.90E+00	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	MN-54	3	7.03E+00	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	FE-59	3	2.23E+01	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	ZN-65	3	1.83E+01	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	CO-60	3	7.50E+00	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
BLUE CRAB (PCI/KG(WET))	GAMMA	K-40	3	3.30E+02	2.80E+03 (2 /2) (2.80E+03 - 2.80E+03)		2.70E+03(1 /1) (2.70E+03 - 2.70E+03)	33 93
						93	2.80E+03(1 /1) (2.80E+03 - 2.80E+03)	
BLUE CRAB (PCI/KG(WET))	GAMMA	BE-7	3	8.47E+01	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	ZR-95	3	1.77E+01	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	NB-95	3	8.77E+00	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	CE-141	3	2.10E+01	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	RU-103	3	1.14E+01	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
						STATION	STATION-MEAN(N/TOTAL) RANGE		
BLUE CRAB (PCI/KG(WET))	GAMMA	BA-140	3	7.43E+01	< LLD	(0 /2)	< LLD	(0 /1)	33 93
						93	< LLD	(0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	LA-140	3	2.47E+01	< LLD	(0 /2)	< LLD	(0 /1)	33 93
						93	< LLD	(0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	RA-226	3	1.53E+02	< LLD	(0 /2)	< LLD	(0 /1)	33 93
						93	< LLD	(0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	TH-228	3	1.40E+01	< LLD	(0 /2)	< LLD	(0 /1)	33 93
						93	< LLD	(0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	I-131	3	7.03E+01	< LLD	(0 /2)	< LLD	(0 /1)	33 93
						93	< LLD	(0 /1)	
BLUE CRAB (PCI/KG(WET))	GAMMA	RU-106	3	6.53E+01	< LLD	(0 /2)	< LLD	(0 /1)	33 93
						93	< LLD	(0 /1)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
BLUE CRAB (PCI/KG(WET))	GAMMA	CS-137	3	7.90E+00	< LLD (0 /2)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GROSS ALPHA		3	4.88E+01	4.59E+01 (1 /1) (4.59E+01 - 4.59E+01)		1.75E+02(2 /2) (3.82E+01 - 3.11E+02)	93
						93	4.59E+01(1 /1) (4.59E+01 - 4.59E+01)	
SUMMER FLOUNDER (PCI/KG(WET))	GROSS BETA		3	3.94E+01	1.19E+04 (1 /1) (1.19E+04 - 1.19E+04)		7.26E+03(2 /2) (7.09E+03 - 7.44E+03)	93
						93	1.19E+04(1 /1) (1.19E+04 - 1.19E+04)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	CE-144	3	8.57E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	CS-134	3	1.02E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	CO-58	3	1.20E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	MN-54	3	1.01E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	FE-59	3	3.10E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	ZN-65	3	2.33E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	CO-60	3	1.13E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	K-40	3	4.37E+02	4.10E+03 (1 /1) (4.10E+03 - 4.10E+03)		3.75E+03(2 /2) (3.70E+03 - 3.80E+03)	93
						93	4.10E+03(1 /1) (4.10E+03 - 4.10E+03)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	BE-7	3	1.16E+02	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH JUNE, 1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
						STATION	STATION-MEAN(N/TOTAL) RANGE		
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	ZR-95	3	2.43E+01	< LLD	(0 /1)	< LLD	(0 /2)	93
						93	< LLD	(0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	NB-95	3	1.25E+01	< LLD	(0 /1)	< LLD	(0 /2)	93
						93	< LLD	(0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	CE-141	3	3.20E+01	< LLD	(0 /1)	< LLD	(0 /2)	93
						93	< LLD	(0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	RU-103	3	1.54E+01	< LLD	(0 /1)	< LLD	(0 /2)	93
						93	< LLD	(0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	BA-140	3	9.90E+01	< LLD	(0 /1)	< LLD	(0 /2)	93
						93	< LLD	(0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	LA-140	3	3.60E+01	< LLD	(0 /1)	< LLD	(0 /2)	93
						93	< LLD	(0 /1)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH JUNE, 1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	RA-226	3	2.35E+02	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	TH-228	3	2.20E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	I-131	3	1.03E+02	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	RU-106	3	8.47E+01	< LLD (0 /1)		< LLD (0 /2)	93
						93	< LLD (0 /1)	
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	CS-137	3	1.16E+01	1.20E+01 (1 /1) (1.20E+01 - 1.20E+01)		< LLD (0 /2)	93
						93	1.20E+01(1 /1) (1.20E+01 - 1.20E+01)	
CLAMS (PCI/KG(WET))	GROSS ALPHA		34	5.27E+01	1.68E+02 (24 /24) (3.30E+01 - 5.02E+02)		2.39E+02(10 /10) (2.77E+01 - 7.03E+02)	23 24 25
						25	1.86E+02(8 /8) (3.44E+01 - 5.02E+02)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GROSS BETA		34	4.91E+01	2.35E+03 (24 /24) (1.16E+03 - 6.08E+03)		2.60E+03(10 /10) (1.44E+03 - 4.60E+03)	23 24 25
						25	2.69E+03(8 /8) (1.16E+03 - 6.08E+03)	
CLAMS (MG/GM(WET))	CALCIUM BY AA		14	2.43E-01	1.27E+00 (9 /9) (5.57E-01 - 2.64E+00)		1.60E+00(5 /5) (7.67E-01 - 2.88E+00)	23 24 25
						25	1.52E+00(3 /3) (5.95E-01 - 2.64E+00)	
CLAMS (PCI/KG(WET))	GAMMA	CE-144	14	5.28E+01	< LLD (0 /9)		< LLD (0 /5)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	CS-134	14	7.10E+00	< LLD (0 /9)		< LLD (0 /5)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	CO-58	14	7.36E+00	< LLD (0 /9)		< LLD (0 /5)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	MN-54	14	6.59E+00	< LLD (0 /9)		< LLD (0 /5)	23 24 25
						25	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	FE-59	14	1.81E+01	< LLD (0 /9)		< LLD (0 /5)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	ZN-65	14	1.54E+01	< LLD (0 /9)		< LLD (0 /5)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	CO-60	14	8.49E+00	1.45E+01 (2 /9) (1.30E+01 - 1.60E+01)		< LLD (0 /5)	23 24 25
						24	1.60E+01(1 /3) (1.60E+01 - 1.60E+01)	
CLAMS (PCI/KG(WET))	GAMMA	K-40	14	2.51E+02	1.40E+03 (9 /9) (1.10E+03 - 1.70E+03)		1.54E+03(5 /5) (1.30E+03 - 1.80E+03)	23 24 25
						25	1.47E+03(3 /3) (1.30E+03 - 1.60E+03)	
CLAMS (PCI/KG(WET))	GAMMA	BE-7	14	7.34E+01	< LLD (0 /9)		< LLD (0 /5)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	ZR-95	14	1.57E+01	< LLD (0 /9)		< LLD (0 /5)	23 24 25
						25	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
						STATION		STATION-MEAN(N/TOTAL) RANGE	
CLAMS (PCI/KG(WET))	GAMMA	NB-95	14	7.78E+00	< LLD	(0 /9)	< LLD	(0 /5)	23 24 25
						25	< LLD	(0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	CE-141	14	1.73E+01	< LLD	(0 /9)	< LLD	(0 /5)	23 24 25
						25	< LLD	(0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	RU-103	14	9.71E+00	< LLD	(0 /9)	< LLD	(0 /5)	23 24 25
						25	< LLD	(0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	BA-140	14	5.70E+01	< LLD	(0 /9)	< LLD	(0 /5)	23 24 25
						25	< LLD	(0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	LA-140	14	2.07E+01	< LLD	(0 /9)	< LLD	(0 /5)	23 24 25
						25	< LLD	(0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	RA-226	14	1.49E+02	< LLD	(0 /9)	< LLD	(0 /5)	23 24 25
						25	< LLD	(0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH JUNE, 1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	TH-228	14	1.33E+01	< LLD (0 /9)		< LLD (0 /5)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	I-131	14	5.52E+01	< LLD (0 /9)		< LLD (0 /5)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	RU-106	14	5.91E+01	< LLD (0 /9)		< LLD (0 /5)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/KG(WET))	GAMMA	CS-137	14	7.39E+00	< LLD (0 /9)		< LLD (0 /5)	23 24 25
						25	< LLD (0 /3)	
CLAMS (PCI/KG(WET))	STRONTIUM-89		9	3.30E+00	< LLD (0 /6)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /2)	
CLAMS (PCI/KG(WET))	STRONTIUM-90		9	1.74E+00	< LLD (0 /6)		< LLD (0 /3)	23 24 25
						25	< LLD (0 /2)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH JUNE, 1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WHITE PERCH (PCI/KG(WET))	GROSS ALPHA		3	8.63E+01	1.60E+02 (1 /2) (1.60E+02 - 1.60E+02)		8.81E+02(1 /1) (8.81E+02 - 8.81E+02)	93
						93	1.60E+02(1 /2) (1.60E+02 - 1.60E+02)	
WHITE PERCH (PCI/KG(WET))	GROSS BETA		3	4.09E+01	2.51E+03 (2 /2) (2.35E+03 - 2.67E+03)		1.46E+04(1 /1) (1.46E+04 - 1.46E+04)	93
						93	2.51E+03(2 /2) (2.35E+03 - 2.67E+03)	
WHITE PERCH (PCI/KG(WET))	GAMMA	CE-144	3	1.44E+02	< LLD (0 /2)		< LLD (0 /1)	93
						93	< LLD (0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	CS-134	3	2.50E+01	< LLD (0 /2)		< LLD (0 /1)	93
						93	< LLD (0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	CO-58	3	2.62E+01	< LLD (0 /2)		< LLD (0 /1)	93
						93	< LLD (0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	MN-54	3	2.32E+01	< LLD (0 /2)		< LLD (0 /1)	93
						93	< LLD (0 /2)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WHITE PERCH (PCI/KG(WET))	GAMMA	FE-59	3	6.43E+01	< LLD (0 /2)		< LLD (0 /1)	93
						93	< LLD (0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	ZN-65	3	5.17E+01	< LLD (0 /2)		< LLD (0 /1)	93
						93	< LLD (0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	CO-60	3	2.04E+01	< LLD (0 /2)		< LLD (0 /1)	93
						93	< LLD (0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	K-40	3	7.90E+02	3.40E+03 (2 /2) (3.40E+03 - 3.40E+03)		4.60E+03(1 /1) (4.60E+03 - 4.60E+03)	93
						93	3.40E+03(2 /2) (3.40E+03 - 3.40E+03)	
WHITE PERCH (PCI/KG(WET))	GAMMA	BE-7	3	2.25E+02	< LLD (0 /2)		< LLD (0 /1)	93
						93	< LLD (0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	ZR-95	3	5.47E+01	< LLD (0 /2)		< LLD (0 /1)	93
						93	< LLD (0 /2)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		STATION	BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
							STATION	STATION-MEAN(N/TOTAL) RANGE		
WHITE PERCH (PCI/KG(WET))	GAMMA	NB-95	3	2.71E+01	< LLD	(0 /2)		< LLD	(0 /1)	93
							93	< LLD	(0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	CE-141	3	5.20E+01	< LLD	(0 /2)		< LLD	(0 /1)	93
							93	< LLD	(0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	RU-103	3	3.05E+01	< LLD	(0 /2)		< LLD	(0 /1)	93
							93	< LLD	(0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	BA-140	3	2.01E+02	< LLD	(0 /2)		< LLD	(0 /1)	93
							93	< LLD	(0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	LA-140	3	7.40E+01	< LLD	(0 /2)		< LLD	(0 /1)	93
							93	< LLD	(0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	RA-226	3	3.75E+02	< LLD	(0 /2)		< LLD	(0 /1)	93
							93	< LLD	(0 /2)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WHITE PERCH (PCI/KG(WET))	GAMMA	TH-228	3	3.95E+01	< LLD (0 /2)		< LLD (0 /1)	93
						93	< LLD (0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	I-131	3	1.93E+02	< LLD (0 /2)		< LLD (0 /1)	93
						93	< LLD (0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	RU-106	3	1.87E+02	< LLD (0 /2)		< LLD (0 /1)	93
						93	< LLD (0 /2)	
WHITE PERCH (PCI/KG(WET))	GAMMA	CS-137	3	2.48E+01	1.55E+01 (2 /2) (1.30E+01 - 1.80E+01)		< LLD (0 /1)	93
						93	1.55E+01(2 /2) (1.30E+01 - 1.80E+01)	
SOIL (PCI/KG(DRY))	GROSS BETA		40	2.37E+03	8.84E+03 (40 /40) (2.28E+03 - 3.18E+04)		* (* /*) (* - *)	1 2 3 4 5
						5	1.56E+04(8 /8) (3.27E+03 - 3.18E+04)	
SOIL (PCI/KG(DRY))	GAMMA	CE-144	15	7.76E+01	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	CS-134	15	1.08E+01	2.80E+01 (1 /15) (2.80E+01 - 2.80E+01)		* (* /*) (* - *)	1 2 3 4 5
						2	2.80E+01(1 /3) (2.80E+01 - 2.80E+01)	
SOIL (PCI/KG(DRY))	GAMMA	CO-58	15	1.06E+01	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	
SOIL (PCI/KG(DRY))	GAMMA	MN-54	15	9.01E+00	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	
SOIL (PCI/KG(DRY))	GAMMA	FE-59	15	2.63E+01	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	
SOIL (PCI/KG(DRY))	GAMMA	ZN-65	15	2.03E+01	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	
SOIL (PCI/KG(DRY))	GAMMA	CO-60	15	8.51E+00	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	K-40	15	2.63E+02	2.49E+03 (15 /15) (5.80E+02 - 1.40E+04)		* (* /*) (* - *)	1 2 3 4 5
						5	7.50E+03(3 /3) (1.50E+03 - 1.40E+04)	
SOIL (PCI/KG(DRY))	GAMMA	BE-7	15	1.48E+02	3.98E+02 (6 /15) (1.20E+02 - 9.10E+02)		* (* /*) (* - *)	1 2 3 4 5
						2	6.05E+02(2 /3) (3.00E+02 - 9.10E+02)	
SOIL (PCI/KG(DRY))	GAMMA	ZR-95	15	2.74E+01	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	
SOIL (PCI/KG(DRY))	GAMMA	NB-95	15	1.45E+01	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	
SOIL (PCI/KG(DRY))	GAMMA	CE-141	15	3.65E+01	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	
SOIL (PCI/KG(DRY))	GAMMA	RU-103	15	1.79E+01	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH JUNE, 1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	BA-140	15	2.04E+02	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	
SOIL (PCI/KG(DRY))	GAMMA	LA-140	15	7.96E+01	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	
SOIL (PCI/KG(DRY))	GAMMA	RA-226	15	2.36E+02	1.21E+03 (15 /15) (3.20E+02 - 5.90E+03)		* (* /*) (* - *)	1 2 3 4 5
						5	3.67E+03(3 /3) (2.20E+03 - 5.90E+03)	
SOIL (PCI/KG(DRY))	GAMMA	TH-228	15	3.06E+01	4.26E+02 (15 /15) (2.40E+02 - 1.20E+03)		* (* /*) (* - *)	1 2 3 4 5
						5	8.60E+02(3 /3) (4.20E+02 - 1.20E+03)	
SOIL (PCI/KG(DRY))	GAMMA	I-131	15	3.50E+02	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	
SOIL (PCI/KG(DRY))	GAMMA	RU-106	15	8.27E+01	< LLD (0 /15)		* (* /*) (* - *)	1 2 3 4 5
						5	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	CS-137	15	2.77E+01	4.04E+02 (15 /15) (1.00E+01 - 9.30E+02)		* (* /*) (* - *)	1 2 3 4 5
						5	6.23E+02(3 /3) (3.30E+02 - 9.30E+02)	
WINTER FLOUNDER (PCI/KG(WET))	GROSS ALPHA		4	4.70E+01	9.37E+01 (2 /3) (7.74E+01 - 1.10E+02)		1.17E+02(1 /1) (1.17E+02 - 1.17E+02)	33 93
						93	1.10E+02(1 /1) (1.10E+02 - 1.10E+02)	
WINTER FLOUNDER (PCI/KG(WET))	GROSS BETA		4	2.14E+01	4.72E+03 (3 /3) (4.48E+03 - 5.12E+03)		7.39E+03(1 /1) (7.39E+03 - 7.39E+03)	33 93
						33	4.83E+03(2 /2) (4.55E+03 - 5.12E+03)	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CE-144	4	6.13E+01	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CS-134	4	8.20E+00	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CO-58	4	8.97E+00	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	MN-54	4	7.82E+00	< LLD (0 /3)		< LLD (0 /1)	33	93
						93	< LLD (0 /1)		
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	FE-59	4	2.35E+01	< LLD (0 /3)		< LLD (0 /1)	33	93
						93	< LLD (0 /1)		
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	ZN-65	4	1.97E+01	< LLD (0 /3)		< LLD (0 /1)	33	93
						93	< LLD (0 /1)		
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CO-60	4	8.40E+00	< LLD (0 /3)		< LLD (0 /1)	33	93
						93	< LLD (0 /1)		
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	K-40	4	3.72E+02	3.87E+03 (3 /3) (3.80E+03 - 4.00E+03)		4.20E+03(1 /1) (4.20E+03 - 4.20E+03)	33	93
						33	3.90E+03(2 /2) (3.80E+03 - 4.00E+03)		
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	BE-7	4	9.05E+01	< LLD (0 /3)		< LLD (0 /1)	33	93
						93	< LLD (0 /1)		

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH JUNE, 1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE / STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	ZR-95	4	1.90E+01	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	NB-95	4	9.60E+00	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CE-141	4	2.17E+01	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	RU-103	4	1.19E+01	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	BA-140	4	8.20E+01	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	LA-140	4	2.69E+01	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	RA-226	4	1.57E+02	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	TH-228	4	1.41E+01	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	I-131	4	7.95E+01	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	RU-106	4	7.22E+01	< LLD (0 /3)		< LLD (0 /1)	33 93
						93	< LLD (0 /1)	
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CS-137	4	9.02E+00	1.00E+01 (1 /3) (1.00E+01 - 1.00E+01)		< LLD (0 /1)	33 93
						33	1.00E+01(1 /2) (1.00E+01 - 1.00E+01)	
PASTURE (PCI/KG(WET))	GROSS BETA		9	9.51E+01	5.49E+03 (9 /9) (2.43E+03 - 1.00E+04)		* (* /*) (* - *)	28 29 30
						29	7.27E+03(3 /3) (3.93E+03 - 1.00E+04)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (MG/GM(WET))	CALCIUM BY AA		9	4.22E-01	3.40E+00 (8 /9) (7.40E-01 - 1.10E+01)		* (* /*) (* - *)	28 29 30
						30	6.63E+00(2 /3) (2.26E+00 - 1.10E+01)	
PASTURE (PCI/KG(WET))	GAMMA	CE-144	9	3.24E+02	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	CS-134	9	4.27E+01	5.30E+01 (2 /9) (3.80E+01 - 6.80E+01)		* (* /*) (* - *)	28 29 30
						30	6.80E+01(1 /3) (6.80E+01 - 6.80E+01)	
PASTURE (PCI/KG(WET))	GAMMA	CO-58	9	4.41E+01	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	MN-54	9	3.76E+01	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	FE-59	9	1.01E+02	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	ZN-65	9	7.88E+01	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	CO-60	9	4.12E+01	1.30E+02 (1 /9) (1.30E+02 - 1.30E+02)		* (* /*) (* - *)	28 29 30
						30	1.30E+02(1 /3) (1.30E+02 - 1.30E+02)	
PASTURE (PCI/KG(WET))	GAMMA	K-40	9	8.64E+02	2.68E+03 (6 /9) (1.40E+03 - 3.80E+03)		* (* /*) (* - *)	28 29 30
						30	3.50E+03(1 /3) (3.50E+03 - 3.50E+03)	
PASTURE (PCI/KG(WET))	GAMMA	BE-7	9	1.13E+03	1.00E+04 (9 /9) (1.90E+03 - 2.00E+04)		* (* /*) (* - *)	28 29 30
						30	1.24E+04(3 /3) (8.80E+03 - 1.90E+04)	
PASTURE (PCI/KG(WET))	GAMMA	ZR-95	9	9.31E+01	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	NB-95	9	4.74E+01	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	CE-141	9	1.15E+02	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	RU-103	9	6.50E+01	8.80E+01 (2 /9) (6.60E+01 - 1.10E+02)		* (* /*) (* - *)	28 29 30
						30	1.10E+02(1 /3) (1.10E+02 - 1.10E+02)	
PASTURE (PCI/KG(WET))	GAMMA	BA-140	9	4.30E+02	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	LA-140	9	1.53E+02	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	RA-226	9	9.04E+02	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	TH-228	9	8.36E+01	1.80E+02 (1 /9) (1.80E+02 - 1.80E+02)		* (* /*) (* - *)	28 29 30
						30	1.80E+02(1 /3) (1.80E+02 - 1.80E+02)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	I-131	9	5.26E+02	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	RU-106	9	3.63E+02	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	GAMMA	CS-137	9	6.63E+01	3.90E+02 (8 /9) (8.60E+01 - 1.80E+03)		* (* /*) (* - *)	28 29 30
						30	7.30E+02(3 /3) (1.70E+02 - 1.80E+03)	
PASTURE (PCI/KG(WET))	STRONTIUM-89		9	3.26E+01	< LLD (0 /9)		* (* /*) (* - *)	28 29 30
						30	< LLD (0 /3)	
PASTURE (PCI/KG(WET))	STRONTIUM-90		9	3.77E+00	2.42E+02 (9 /9) (1.68E+01 - 7.76E+02)		* (* /*) (* - *)	28 29 30
						30	3.25E+02(3 /3) (1.68E+01 - 7.76E+02)	
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		29	4.41E+03	1.22E+04 (12 /24) (6.28E+03 - 2.95E+04)		6.91E+03(1 /5) (6.91E+03 - 6.91E+03)	23 24 25 26 27 32 33 93
						26	2.95E+04(1 /3) (2.95E+04 - 2.95E+04)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GROSS BETA		29	1.95E+03	1.38E+04 (24 /24) (1.90E+03 - 3.84E+04)		2.08E+04(5 /5) (1.72E+04 - 2.38E+04)	23 24 25 26 27 32 33 93
						32	3.08E+04(3 /3) (2.68E+04 - 3.84E+04)	
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-144	59	9.35E+01	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-134	59	1.50E+01	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-58	59	1.49E+01	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SEDIMENT (PCI/KG(DRY))	GAMMA	MN-54	59	1.31E+01	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SEDIMENT (PCI/KG(DRY))	GAMMA	FE-59	59	3.98E+01	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	ZN-65	59	3.15E+01	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-60	59	1.85E+01	1.41E+02 (30 /49) (8.50E+00 - 6.10E+02)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						33	2.57E+02(8 /8) (7.90E+01 - 6.10E+02)	
SEDIMENT (PCI/KG(DRY))	GAMMA	K-40	59	5.13E+02	6.58E+03 (48 /49) (4.80E+02 - 1.80E+04)		1.18E+04(10 /10) (8.30E+03 - 1.50E+04)	23 24 25 26 27 32 33 93
						33	1.40E+04(8 /8) (8.10E+03 - 1.80E+04)	
SEDIMENT (PCI/KG(DRY))	GAMMA	BE-7	59	1.71E+02	8.31E+02 (20 /49) (1.20E+02 - 7.50E+03)		5.30E+02(1 /10) (5.30E+02 - 5.30E+02)	23 24 25 26 27 32 33 93
						23	2.09E+03(4 /8) (1.30E+02 - 7.50E+03)	
SEDIMENT (PCI/KG(DRY))	GAMMA	ZR-95	59	3.63E+01	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SEDIMENT (PCI/KG(DRY))	GAMMA	NB-95	59	1.86E+01	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH JUNE, 1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-141	59	3.96E+01	4.20E+01 (1 /49) (4.20E+01 - 4.20E+01)		1.40E+02(1 /10) (1.40E+02 - 1.40E+02)	23 24 25 26 27 32 33 93
						23	4.20E+01(1 /8) (4.20E+01 - 4.20E+01)	
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-103	59	2.09E+01	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SEDIMENT (PCI/KG(DRY))	GAMMA	BA-140	59	2.12E+02	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SEDIMENT (PCI/KG(DRY))	GAMMA	LA-140	59	8.38E+01	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SEDIMENT (PCI/KG(DRY))	GAMMA	RA-226	59	2.85E+02	1.12E+03 (49 /49) (2.50E+02 - 2.00E+03)		9.13E+02(10 /10) (6.50E+02 - 1.20E+03)	23 24 25 26 27 32 33 93
						93	1.73E+03(3 /3) (1.20E+03 - 2.00E+03)	
SEDIMENT (PCI/KG(DRY))	GAMMA	TH-228	59	3.92E+01	5.50E+02 (49 /49) (1.40E+02 - 1.10E+03)		5.60E+02(10 /10) (3.70E+02 - 8.90E+02)	23 24 25 26 27 32 33 93
						33	8.46E+02(8 /8) (6.10E+02 - 1.10E+03)	

TABLE 14
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH JUNE,1986
SEMI-ANNUAL SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	STATION	BACKGROUND-MEAN(N/TOTAL) RANGE STATION-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	I-131	59	3.34E+02	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-106	59	1.11E+02	< LLD (0 /49)		< LLD (0 /10)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-137	59	2.03E+01	1.53E+02 (43 /49) (8.80E+00 - 3.90E+02)		9.20E+01(7 /10) (1.90E+01 - 2.40E+02)	23 24 25 26 27 32 33 93
						33	2.96E+02(8 /8) (1.30E+02 - 3.80E+02)	
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		29	7.89E+01	< LLD (0 /24)		< LLD (0 /5)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		29	3.79E+01	< LLD (0 /24)		< LLD (0 /5)	23 24 25 26 27 32 33 93
						93	< LLD (0 /3)	

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
VEGETATION (PCI/KG(WET))	GROSS BETA		20	3.52E+01	4.13E+03 (20 /20) (1.57E+03 - 7.32E+03)	* (* /*) (* - *)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		57	5.21E-04	1.21E-03 (27 /35) (4.85E-04 - 2.11E-03)	1.06E-03(17 /22) (4.77E-04 - 1.94E-03)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS BETA		57	1.50E-03	1.83E-02 (35 /35) (8.85E-03 - 3.51E-02)	1.76E-02(22 /22) (5.46E-03 - 4.27E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-144	63	1.45E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-134	63	2.55E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-58	63	2.57E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	MN-54	63	2.37E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	FE-59	63	5.97E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZN-65	63	5.44E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-60	63	2.72E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	K-40	63	5.60E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BE-7	63	4.23E-02	1.33E-01 (38 /38) (6.50E-02 - 2.10E-01)	1.25E-01(24 /25) (5.20E-02 - 3.00E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZR-95	63	5.61E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	NB-95	63	2.79E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-141	63	4.63E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-103	63	3.09E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BA-140	63	1.55E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	LA-140	63	7.25E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RA-226	63	4.42E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	TH-228	63	4.60E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	I-131	63	1.18E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-106	63	2.18E-02	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-137	63	2.69E-03	< LLD (0 /38)	< LLD (0 /25)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		8	4.00E-04	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-90		8	5.05E-05	< LLD (0 /5)	< LLD (0 /3)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-SS		31	1.09E+00	2.59E+00 (8 /20) (8.46E-01 - 7.30E+00)	1.89E+00(6 /11) (7.44E-01 - 3.22E+00)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-DS		31	1.32E+00	5.33E+00 (20 /20) (2.33E+00 - 1.20E+01)	5.89E+00(11 /11) (2.02E+00 - 1.08E+01)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-144	31	3.48E+01	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-134	31	4.20E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-58	31	4.03E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	MN-54	31	3.81E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	FE-59	31	8.65E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZN-65	31	8.43E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-60	31	4.20E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	K-40	31	6.35E+01	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	BE-7	31	4.76E+01	7.12E+01 (6 /20) (5.90E+01 - 8.90E+01)	8.07E+01(3 /11) (5.60E+01 - 1.10E+02)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZR-95	31	8.92E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	NB-95	31	4.45E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-141	31	1.01E+01	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-103	31	5.29E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH FEBRUARY, 1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	BA-140	31	2.25E+01	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	LA-140	31	8.74E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RA-226	31	9.85E+01	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	TH-228	31	8.96E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	I-131	31	1.54E+01	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-106	31	3.65E+01	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-137	31	4.10E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	TRITIUM		31	7.66E+01	1.52E+02 (5 /20) (6.92E+01 - 2.59E+02)	9.47E+01(2 /11) (7.14E+01 - 1.18E+02)	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-89		31	2.50E+00	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-90		31	5.80E-01	< LLD (0 /20)	< LLD (0 /11)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR IODINE (PCI/M3)	IODINE-131		56	1.24E-02	< LLD (0 /35)	< LLD (0 /21)	1 2 3 4 5
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		33	4.91E-01	< LLD (0 /29)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		33	1.30E+00	2.03E+00 (12 /29) (9.78E-01 - 5.21E+00)	2.08E+00(1 /4) (2.08E+00 - 2.08E+00)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GROSS BETA-SS		33	7.39E-01	1.11E+00 (3 /29) (9.28E-01 - 1.47E+00)	1.03E+00(1 /4) (1.03E+00 - 1.03E+00)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GROSS BETA-DS		33	3.61E+01	2.35E+02 (29 /29) (1.38E+00 - 4.91E+02)	2.69E+02(4 /4) (2.14E+02 - 3.21E+02)	23 24 25 26 27 32 33 93
SURFACE WATER (MG/L)	CALCIUM BY AA		33	1.00E+01	7.15E+02 (22 /29) (3.00E+01 - 1.01E+03)	7.56E+02(4 /4) (5.35E+02 - 9.14E+02)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	CE-144	36	3.19E+01	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	CS-134	36	4.01E+00	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	CO-58	36	3.86E+00	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	MN-54	36	3.69E+00	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GAMMA	FE-59	36	8.41E+00	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	ZN-65	36	8.10E+00	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	CO-60	36	3.95E+00	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	K-40	36	9.04E+01	2.19E+02 (18 /32) (1.40E+02 - 2.90E+02)	2.42E+02(4 /4) (1.60E+02 - 3.20E+02)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	BE-7	36	3.94E+01	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	ZR-95	36	8.46E+00	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	NB-95	36	4.28E+00	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	CE-141	36	9.17E+00	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	RU-103	36	4.94E+00	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	BA-140	36	2.10E+01	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GAMMA	LA-140	36	8.19E+00	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	RA-226	36	9.08E+01	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	TH-228	36	8.19E+00	1.90E+01 (1 /32) (1.90E+01 - 1.90E+01)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	I-131	36	1.42E+01	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	RU-106	36	3.36E+01	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	CS-137	36	3.96E+00	< LLD (0 /32)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	TRITIUM		33	6.43E+01	6.77E+01 (2 /29) (6.57E+01 - 6.97E+01)	7.59E+01(1 /4) (7.59E+01 - 7.59E+01)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	RADIUM-226		33	2.09E-01	5.29E-01 (16 /29) (1.28E-01 - 1.12E+00)	5.79E-01(2 /4) (4.38E-01 - 7.21E-01)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	RADIUM-228		33	4.72E-01	6.50E-01 (5 /29) (2.21E-01 - 1.10E+00)	9.61E-01(1 /4) (9.61E-01 - 9.61E-01)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	STRONTIUM-89		33	2.65E+00	< LLD (0 /29)	< LLD (0 /4)	23 24 25 26 27 32 33 93

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	STRONTIUM-90		33	7.33E-01	< LLD (0 /29)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	TOTAL URANIUM		33	3.40E-02	1.30E+00 (29 /29) (4.01E-02 - 2.02E+00)	1.65E+00(4 /4) (1.40E+00 - 1.85E+00)	23 24 25 26 27 32 33 93
WELL WATER (PCI/L)	GROSS ALPHA-SS		24	3.77E-01	< LLD (0 /20)	< LLD (0 /4)	1 19 20 21 22
WELL WATER (PCI/L)	GROSS ALPHA-DS		24	8.18E-01	1.54E+00 (10 /20) (9.26E-01 - 3.41E+00)	1.87E+00(4 /4) (1.68E+00 - 2.03E+00)	1 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-SS		24	7.10E-01	< LLD (0 /20)	< LLD (0 /4)	1 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-DS		24	8.66E-01	3.13E+00 (19 /20) (1.82E+00 - 4.84E+00)	3.54E+00(4 /4) (2.87E+00 - 5.13E+00)	1 19 20 21 22
WELL WATER (PCI/L)	POTASSIUM-40		6	2.00E-01	1.81E+00 (4 /5) (1.08E+00 - 2.28E+00)	8.92E+00(1 /1) (8.92E+00 - 8.92E+00)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CE-144	6	3.25E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-134	6	4.07E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-58	6	3.87E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	MN-54	6	3.77E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	FE-59	6	8.08E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZN-65	6	8.62E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-60	6	3.95E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	K-40	6	6.65E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	BE-7	6	3.85E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZR-95	6	8.43E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	NB-95	6	4.38E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CE-141	6	8.50E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-103	6	4.68E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH FEBRUARY, 1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	BA-140	6	1.68E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	LA-140	6	6.67E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RA-226	6	9.27E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	TH-228	6	8.35E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	I-131	6	9.77E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-106	6	3.45E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-137	6	3.98E+00	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	TRITIUM		6	6.45E+01	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226		6	2.22E-01	8.49E-01 (5 /5) (1.09E-01 - 1.35E+00)	6.37E-01(1 /1) (6.37E-01 - 6.37E-01)	1 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		6	2.60E-01	8.89E-01 (4 /5) (2.83E-01 - 1.79E+00)	1.04E+00(1 /1) (1.04E+00 - 1.04E+00)	1 19 20 21 22

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	TOTAL URANIUM		6	3.40E-02	< LLD (0 /5)	< LLD (0 /1)	1 19 20 21 22
CLAMS (PCI/KG(WET))	GROSS ALPHA		16	4.30E+01	1.65E+02 (12 /12) (3.30E+01 - 5.02E+02)	1.57E+02(4 /4) (2.77E+01 - 3.49E+02)	23 24 25
CLAMS (PCI/KG(WET))	GROSS BETA		16	4.41E+01	2.33E+03 (12 /12) (1.16E+03 - 6.08E+03)	2.24E+03(4 /4) (1.44E+03 - 3.36E+03)	23 24 25
CLAMS (MG/GM(WET))	CALCIUM BY AA		4	2.67E-01	1.29E+00 (3 /3) (1.11E+00 - 1.44E+00)	1.14E+00(1 /1) (1.14E+00 - 1.14E+00)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-144	5	5.52E+01	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-134	5	7.22E+00	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-58	5	7.26E+00	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	MN-54	5	6.58E+00	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	FE-59	5	1.82E+01	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZN-65	5	1.56E+01	< LLD (0 /4)	< LLD (0 /1)	23 24 25

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	CO-60	5	8.78E+00	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	K-40	5	2.56E+02	1.40E+03 (3 /4) (1.30E+03 - 1.60E+03)	1.50E+03(1 /1) (1.50E+03 - 1.50E+03)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BE-7	5	7.42E+01	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZR-95	5	1.60E+01	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	NB-95	5	8.06E+00	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-141	5	1.82E+01	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-103	5	9.62E+00	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BA-140	5	5.00E+01	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	LA-140	5	1.84E+01	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RA-226	5	1.56E+02	< LLD (0 /4)	< LLD (0 /1)	23 24 25

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	TH-228	5	1.36E+01	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	I-131	5	4.08E+01	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-106	5	5.96E+01	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-137	5	7.34E+00	< LLD (0 /4)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-89		4	3.77E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-90		4	1.71E+00	< LLD (0 /3)	< LLD (0 /1)	23 24 25
WHITE PERCH (PCI/KG(WET))	GROSS ALPHA		1	3.37E+01	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GROSS BETA		1	2.47E+01	2.67E+03 (1 /1) (2.67E+03 - 2.67E+03)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	CE-144	1	3.60E+01	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	CS-134	1	5.30E+00	< LLD (0 /1)	* (* /*) (* - *)	93

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WHITE PERCH (PCI/KG(WET))	GAMMA	CO-58	1	5.50E+00	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	MN-54	1	5.50E+00	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	FE-59	1	1.60E+01	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	ZN-65	1	1.30E+01	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	CO-60	1	5.90E+00	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	K-40	1	2.90E+02	3.40E+03 (1 /1) (3.40E+03 - 3.40E+03)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	BE-7	1	5.10E+01	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	ZR-95	1	1.20E+01	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	NB-95	1	6.10E+00	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	CE-141	1	1.20E+01	< LLD (0 /1)	* (* /*) (* - *)	93

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WHITE PERCH (PCI/KG(WET))	GAMMA	RU-103	1	7.00E+00	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	BA-140	1	3.50E+01	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	LA-140	1	1.30E+01	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	RA-226	1	1.10E+02	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	TH-228	1	9.60E+00	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	I-131	1	3.10E+01	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	RU-106	1	4.60E+01	< LLD (0 /1)	* (* /*) (* - *)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	CS-137	1	6.40E+00	1.80E+01 (1 /1) (1.80E+01 - 1.80E+01)	* (* /*) (* - *)	93
SOIL (PCI/KG(DRY))	GROSS BETA		20	2.48E+03	8.81E+03 (20 /20) (2.86E+03 - 3.08E+04)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-144	5	7.16E+01	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	CS-134	5	1.07E+01	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-58	5	9.62E+00	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	MN-54	5	8.94E+00	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	FE-59	5	2.16E+01	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZN-65	5	2.06E+01	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-60	5	8.70E+00	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	K-40	5	2.88E+02	3.70E+03 (5 /5) (5.80E+02 - 1.40E+04)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BE-7	5	1.27E+02	2.87E+02 (3 /5) (2.10E+02 - 3.50E+02)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZR-95	5	2.54E+01	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	NB-95	5	1.28E+01	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	CE-141	5	2.74E+01	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-103	5	1.39E+01	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BA-140	5	1.02E+02	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	LA-140	5	3.52E+01	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RA-226	5	2.22E+02	1.00E+03 (5 /5) (3.20E+02 - 2.90E+03)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	TH-228	5	3.10E+01	4.76E+02 (5 /5) (2.70E+02 - 1.20E+03)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	I-131	5	1.03E+02	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-106	5	7.84E+01	< LLD (0 /5)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-137	5	2.56E+01	3.71E+02 (5 /5) (1.40E+01 - 6.10E+02)	* (* /*) (* - *)	1 2 3 4 5
WINTER FLOUNDER (PCI/KG(WET))	GROSS ALPHA		1	4.44E+01	< LLD (0 /1)	* (* /*) (* - *)	33

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH FEBRUARY, 1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WINTER FLOUNDER (PCI/KG(WET))	GROSS BETA		1	3.39E+01	5.12E+03 (1 /1) (5.12E+03 - 5.12E+03)	(* * - * (* /*))	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CE-144	1	3.80E+01	< LLD (0 /1)	(* * - * (* /*))	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CS-134	1	5.50E+00	< LLD (0 /1)	(* * - * (* /*))	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CO-58	1	5.20E+00	< LLD (0 /1)	(* * - * (* /*))	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	MN-54	1	5.20E+00	< LLD (0 /1)	(* * - * (* /*))	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	FE-59	1	1.30E+01	< LLD (0 /1)	(* * - * (* /*))	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	ZN-65	1	1.40E+01	< LLD (0 /1)	(* * - * (* /*))	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CO-60	1	5.90E+00	< LLD (0 /1)	(* * - * (* /*))	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	K-40	1	3.10E+02	4.00E+03 (1 /1) (4.00E+03 - 4.00E+03)	(* * - * (* /*))	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	BE-7	1	4.80E+01	< LLD (0 /1)	(* * - * (* /*))	33

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	ZR-95	1	1.10E+01	< LLD	(0 /1)	* (* - *)	(* /*)	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	NB-95	1	5.50E+00	< LLD	(0 /1)	* (* - *)	(* /*)	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CE-141	1	1.00E+01	< LLD	(0 /1)	* (* - *)	(* /*)	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	RU-103	1	5.80E+00	< LLD	(0 /1)	* (* - *)	(* /*)	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	BA-140	1	2.30E+01	< LLD	(0 /1)	* (* - *)	(* /*)	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	LA-140	1	7.80E+00	< LLD	(0 /1)	* (* - *)	(* /*)	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	RA-226	1	1.00E+02	< LLD	(0 /1)	* (* - *)	(* /*)	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	TH-228	1	9.60E+00	< LLD	(0 /1)	* (* - *)	(* /*)	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	I-131	1	1.20E+01	< LLD	(0 /1)	* (* - *)	(* /*)	33
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	RU-106	1	4.60E+01	< LLD	(0 /1)	* (* - *)	(* /*)	33

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CS-137	1	6.10E+00	1.00E+01 (1 /1) (1.00E+01 - 1.00E+01)	* (* /*) (* - *)	33
PASTURE (PCI/KG(WET))	GROSS BETA		3	5.95E+01	3.59E+03 (3 /3) (2.43E+03 - 4.42E+03)	* (* /*) (* - *)	28 29 30
PASTURE (MG/GM(WET))	CALCIUM BY AA		3	3.13E-01	5.64E+00 (3 /3) (1.42E+00 - 1.10E+01)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-144	3	3.80E+02	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CS-134	3	4.67E+01	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-58	3	4.83E+01	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	MN-54	3	4.10E+01	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	FE-59	3	1.03E+02	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZN-65	3	8.93E+01	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-60	3	4.43E+01	< LLD (0 /3)	* (* /*) (* - *)	28 29 30

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	K-40	3	8.27E+02	1.40E+03 (1 /3) (1.40E+03 - 1.40E+03)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BE-7	3	1.37E+03	1.39E+04 (3 /3) (8.70E+03 - 1.90E+04)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZR-95	3	1.00E+02	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	NB-95	3	5.03E+01	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-141	3	1.26E+02	< 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	3.33E+02	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	LA-140	3	1.25E+02	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RA-226	3	1.04E+03	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	TH-228	3	9.97E+01	1.80E+02 (1 /3) (1.80E+02 - 1.80E+02)	* (* /*) (* - *)	28 29 30

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER, 1985 THROUGH FEBRUARY, 1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	I-131	3	2.80E+02	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-106	3	4.03E+02	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CS-137	3	6.07E+01	1.23E+02 (3 /3) (8.80E+01 - 1.70E+02)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-89		3	3.87E+01	< LLD (0 /3)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-90		3	2.91E+00	3.79E+02 (3 /3) (1.56E+02 - 7.76E+02)	* (* /*) (* - *)	28 29 30
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		9	4.74E+03	1.05E+04 (3 /8) (8.14E+03 - 1.27E+04)	< LLD (0 /1)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GROSS BETA		9	1.68E+03	1.20E+04 (8 /8) (1.90E+03 - 3.42E+04)	2.38E+04(1 /1) (2.38E+04 - 2.38E+04)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-144	30	8.68E+01	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-134	30	1.38E+01	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-58	30	1.27E+01	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	MN-54	30	1.19E+01	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	FE-59	30	3.17E+01	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	ZN-65	30	2.87E+01	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-60	30	1.84E+01	1.43E+02 (18 /26) (1.00E+01 - 3.70E+02)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	K-40	30	4.99E+02	7.65E+03 (25 /26) (6.00E+02 - 1.80E+04)	1.11E+04(4 /4) (8.30E+03 - 1.40E+04)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	BE-7	30	1.43E+02	9.91E+02 (14 /26) (1.20E+02 - 7.50E+03)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	ZR-95	30	3.13E+01	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	NB-95	30	1.57E+01	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-141	30	3.09E+01	4.20E+01 (1 /26) (4.20E+01 - 4.20E+01)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-103	30	1.62E+01	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93

TABLE 15
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
DECEMBER,1985 THROUGH FEBRUARY,1986
FIRST QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	BA-140	30	1.05E+02	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	LA-140	30	3.77E+01	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	RA-226	30	2.66E+02	1.12E+03 (26 /26) (2.50E+02 - 2.00E+03)	8.95E+02(4 /4) (6.50E+02 - 1.20E+03)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	TH-228	30	3.75E+01	6.03E+02 (26 /26) (1.40E+02 - 1.10E+03)	5.75E+02(4 /4) (3.70E+02 - 8.90E+02)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	I-131	30	9.52E+01	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-106	30	1.00E+02	< LLD (0 /26)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-137	30	1.93E+01	1.57E+02 (25 /26) (9.00E+00 - 3.90E+02)	5.00E+01(3 /4) (1.90E+01 - 8.00E+01)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		9	7.91E+01	< LLD (0 /8)	< LLD (0 /1)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		9	3.62E+01	< LLD (0 /8)	< LLD (0 /1)	23 24 25 26 27 32 33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
VEGETATION (PCI/KG(WET))	GROSS BETA		20	6.18E+01	7.56E+03 (20 /20) (2.11E+03 - 4.17E+04)	* (* /*) (* - *)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS ALPHA		96	5.36E-04	1.12E-03 (39 /60) (4.47E-04 - 2.37E-03)	1.09E-03(26 /36) (4.68E-04 - 2.31E-03)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GROSS BETA		96	1.66E-03	6.85E-02 (60 /60) (7.37E-03 - 2.88E-01)	7.22E-02(36 /36) (7.85E-03 - 2.58E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CE-144	106	2.11E-02	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-134	106	6.27E-03	2.64E-02 (24 /69) (9.50E-03 - 6.10E-02)	2.97E-02(12 /37) (1.70E-02 - 4.40E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-58	106	4.16E-03	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	MN-54	106	3.62E-03	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	FE-59	106	9.96E-03	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZN-65	106	8.49E-03	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CO-60	106	4.19E-03	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	K-40	106	8.35E-02	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BE-7	106	6.46E-02	1.47E-01 (59 /69) (6.40E-02 - 2.60E-01)	1.63E-01(36 /37) (7.40E-02 - 3.30E-01)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	ZR-95	106	8.95E-03	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	NB-95	106	4.58E-03	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	CE-141	106	7.50E-03	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RU-103	106	8.40E-03	5.86E-02 (29 /69) (1.50E-02 - 5.10E-01)	4.03E-02(18 /37) (3.70E-03 - 7.50E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	BA-140	106	3.40E-02	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	LA-140	106	1.77E-02	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	RA-226	106	6.30E-02	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	TH-228	106	6.37E-03	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	I-131	106	3.38E-02	1.40E-01 (5 /69) (1.20E-01 - 1.70E-01)	1.70E-01(3 /37) (1.60E-01 - 1.90E-01)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
AIR PARTICULATE (PCI/M3)	GAMMA	RU-106	106	3.53E-02	< LLD (0 /69)	< LLD (0 /37)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	GAMMA	CS-137	106	7.63E-03	6.33E-02 (29 /69) (2.30E-02 - 3.40E-01)	5.64E-02(14 /37) (1.90E-02 - 9.60E-02)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-89		16	8.25E-04	1.89E-03 (2 /10) (1.74E-03 - 2.05E-03)	1.65E-03(2 /6) (1.60E-03 - 1.71E-03)	1 2 3 4 5
AIR PARTICULATE (PCI/M3)	STRONTIUM-90		16	9.99E-05	1.40E-04 (3 /10) (1.26E-04 - 1.59E-04)	1.21E-04(1 /6) (1.21E-04 - 1.21E-04)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-SS		40	2.13E+00	6.03E+00 (11 /25) (7.68E-01 - 3.58E+01)	6.21E+00(9 /15) (1.19E+00 - 2.65E+01)	1 2 3 4 5
PRECIPITATION (PCI/L)	GROSS BETA-DS		40	2.26E+00	1.29E+01 (23 /25) (1.37E+00 - 8.02E+01)	8.48E+00(15 /15) (2.98E+00 - 2.23E+01)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-144	36	4.02E+01	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	CS-134	36	5.31E+00	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-58	36	5.24E+00	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	MN-54	36	4.90E+00	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	FE-59	36	1.18E+01	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZN-65	36	1.00E+01	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CO-60	36	5.10E+00	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	K-40	36	9.34E+01	8.20E+01 (1 /23) (8.20E+01 - 8.20E+01)	< LLD (0 /13)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	BE-7	36	6.07E+01	8.11E+01 (9 /23) (2.80E+01 - 1.30E+02)	5.04E+01(5 /13) (2.80E+01 - 8.10E+01)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	ZR-95	36	1.14E+01	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	NB-95	36	5.79E+00	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CE-141	36	1.26E+01	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-103	36	7.09E+00	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	BA-140	36	3.83E+01	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	LA-140	36	1.59E+01	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	GAMMA	RA-226	36	1.13E+02	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	TH-228	36	1.09E+01	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	I-131	36	4.28E+01	< LLD (0 /23)	2.00E+01(1 /13) (2.00E+01 - 2.00E+01)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	RU-106	36	4.52E+01	< LLD (0 /23)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	GAMMA	CS-137	36	5.54E+00	8.77E+00 (3 /23) (1.60E+00 - 1.60E+01)	< LLD (0 /13)	1 2 3 4 5
PRECIPITATION (PCI/L)	TRITIUM		40	8.18E+01	9.89E+01 (3 /25) (6.72E+01 - 1.40E+02)	1.13E+02(1 /15) (1.13E+02 - 1.13E+02)	1 2 3 4 5
PRECIPITATION (PCI/L)	STRONTIUM-89		40	3.03E+00	< LLD (0 /25)	< LLD (0 /15)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PRECIPITATION (PCI/L)	STRONTIUM-90		40	7.16E-01	< LLD (0 /25)	< LLD (0 /15)	1 2 3 4 5
AIR IODINE (PCI/M3)	IODINE-131		96	3.36E-02	3.09E-01 (22 /60) (2.34E-02 - 8.07E-01)	2.54E-01(16 /36) (2.33E-02 - 1.25E+00)	1 2 3 4 5
SURFACE WATER (PCI/L)	GROSS ALPHA-SS		36	6.02E-01	8.25E-01 (1 /30) (8.25E-01 - 8.25E-01)	5.51E-01(1 /6) (5.51E-01 - 5.51E-01)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GROSS ALPHA-DS		36	1.92E+00	2.07E+00 (8 /30) (1.41E+00 - 3.62E+00)	< LLD (0 /6)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GROSS BETA-SS		36	7.29E-01	1.18E+00 (5 /30) (7.36E-01 - 2.76E+00)	7.96E-01(2 /6) (7.53E-01 - 8.39E-01)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GROSS BETA-DS		36	3.23E+01	2.56E+02 (30 /30) (7.82E-01 - 6.38E+02)	4.40E+02(5 /6) (3.51E+02 - 5.12E+02)	23 24 25 26 27 32 33 93
SURFACE WATER (MG/L)	CALCIUM BY AA		36	1.00E+01	5.18E+02 (25 /30) (1.33E+01 - 1.13E+03)	6.99E+02(6 /6) (4.26E+02 - 1.00E+03)	23 24 25 26 27 32 33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GAMMA	CE-144	40	1.94E+01	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	CS-134	40	2.58E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	CO-58	40	2.64E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	MN-54	40	2.38E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	FE-59	40	6.12E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	ZN-65	40	5.16E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	CO-60	40	2.52E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GAMMA	K-40	40	5.41E+01	1.67E+02 (12 /32) (1.90E+01 - 2.40E+02)	2.33E+02(5 /8) (1.70E+01 - 3.40E+02)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	BE-7	40	2.71E+01	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	ZR-95	40	5.71E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	NB-95	40	2.92E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	CE-141	40	6.42E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	RU-103	40	3.56E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	BA-140	40	2.26E+01	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	GAMMA	LA-140	40	9.34E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	RA-226	40	5.45E+01	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	TH-228	40	5.13E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	I-131	40	2.45E+01	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	RU-106	40	2.18E+01	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	GAMMA	CS-137	40	2.56E+00	< LLD (0 /32)	< LLD (0 /8)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	TRITIUM		36	8.83E+01	7.02E+01 (3 /30) (6.19E+01 - 8.05E+01)	1.62E+02(1 /6) (1.62E+02 - 1.62E+02)	23 24 25 26 27 32 33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SURFACE WATER (PCI/L)	RADIUM-226		36	1.93E-01	5.14E-01 (23 /30) (1.24E-01 - 2.32E+00)	< LLD (0 /6)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	RADIUM-228		36	5.02E-01	1.12E+00 (3 /30) (7.13E-01 - 1.86E+00)	< LLD (0 /6)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	STRONTIUM-89		36	3.08E+00	< LLD (0 /30)	< LLD (0 /6)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	STRONTIUM-90		36	8.22E-01	< LLD (0 /30)	< LLD (0 /6)	23 24 25 26 27 32 33 93
SURFACE WATER (PCI/L)	TOTAL URANIUM		36	3.40E-02	1.30E+00 (30 /30) (4.10E-02 - 4.37E+00)	3.28E+00(6 /6) (1.33E+00 - 5.64E+00)	23 24 25 26 27 32 33 93
WELL WATER (PCI/L)	GROSS ALPHA-SS		24	5.30E-01	< LLD (0 /20)	< LLD (0 /4)	1 19 20 21 22
WELL WATER (PCI/L)	GROSS ALPHA-DS		24	9.76E-01	1.67E+00 (10 /20) (7.28E-01 - 2.97E+00)	1.70E+00(4 /4) (1.41E+00 - 2.27E+00)	1 19 20 21 22

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GROSS BETA-SS		24	7.49E-01	< LLD (0 /20)	< LLD (0 /4)	1 19 20 21 22
WELL WATER (PCI/L)	GROSS BETA-DS		24	9.18E-01	3.06E+00 (20 /20) (8.53E-01 - 4.63E+00)	2.68E+00(4 /4) (2.46E+00 - 2.86E+00)	1 19 20 21 22
WELL WATER (PCI/L)	POTASSIUM-40		12	1.05E-01	1.61E+00 (10 /10) (1.51E-01 - 2.55E+00)	1.01E+00(2 /2) (9.96E-01 - 1.02E+00)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CE-144	14	2.39E+01	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-134	14	3.21E+00	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-58	14	3.18E+00	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	MN-54	14	2.91E+00	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	FE-59	14	7.06E+00	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZN-65	14	6.56E+00	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CO-60	14	3.24E+00	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	K-40	14	6.46E+01	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	BE-7	14	3.29E+01	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	ZR-95	14	6.93E+00	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	NB-95	14	3.49E+00	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	CE-141	14	7.14E+00	< LLD	(0 /11)	< LLD	(0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RU-103	14	4.27E+00	< LLD	(0 /11)	< LLD	(0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	BA-140	14	2.20E+01	< LLD	(0 /11)	< LLD	(0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	LA-140	14	9.24E+00	< LLD	(0 /11)	< LLD	(0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	RA-226	14	6.64E+01	< LLD	(0 /11)	< LLD	(0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	TH-228	14	5.99E+00	< LLD	(0 /11)	< LLD	(0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	I-131	14	2.11E+01	< LLD	(0 /11)	< LLD	(0 /3)	1 19 20 21 22

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WELL WATER (PCI/L)	GAMMA	RU-106	14	2.84E+01	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	GAMMA	CS-137	14	3.46E+00	< LLD (0 /11)	< LLD (0 /3)	1 19 20 21 22
WELL WATER (PCI/L)	TRITIUM		12	9.10E+01	1.48E+02 (1 /10) (1.48E+02 - 1.48E+02)	< LLD (0 /2)	1 19 20 21 22
WELL WATER (PCI/L)	RADIUM-226		12	1.61E-01	7.46E-01 (10 /10) (1.73E-01 - 1.94E+00)	4.04E-01(2 /2) (3.99E-01 - 4.09E-01)	1 19 20 21 22
WELL WATER (PCI/L)	RADIUM-228		12	4.39E-01	1.03E+00 (3 /10) (8.86E-01 - 1.24E+00)	9.81E-01(2 /2) (7.53E-01 - 1.21E+00)	1 19 20 21 22
WELL WATER (PCI/L)	TOTAL URANIUM		12	3.40E-02	5.66E-02 (4 /10) (5.03E-02 - 6.85E-02)	1.02E-01(1 /2) (1.02E-01 - 1.02E-01)	1 19 20 21 22
BLUE CRAB (PCI/KG(WET))	GROSS ALPHA		3	4.60E+01	6.03E+01 (2 /2) (4.50E+01 - 7.56E+01)	< LLD (0 /1)	33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
BLUE CRAB (PCI/KG(WET))	GROSS BETA		3	6.83E+01	5.48E+03 (2 /2) (5.31E+03 - 5.65E+03)	5.77E+03(1 /1) (5.77E+03 - 5.77E+03)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	CE-144	3	5.67E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	CS-134	3	7.63E+00	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	CO-58	3	7.90E+00	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	MN-54	3	7.03E+00	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	FE-59	3	2.23E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	ZN-65	3	1.83E+01	< LLD (0 /2)	< LLD (0 /1)	33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
BLUE CRAB (PCI/KG(WET))	GAMMA	CO-60	3	7.50E+00	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	K-40	3	3.30E+02	2.80E+03 (2 /2) (2.80E+03 - 2.80E+03)	2.70E+03(1 /1) (2.70E+03 - 2.70E+03)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	BE-7	3	8.47E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	ZR-95	3	1.77E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	NB-95	3	8.77E+00	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	CE-141	3	2.10E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	RU-103	3	1.14E+01	< LLD (0 /2)	< LLD (0 /1)	33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
BLUE CRAB (PCI/KG(WET))	GAMMA	BA-140	3	7.43E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	LA-140	3	2.47E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	RA-226	3	1.53E+02	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	TH-228	3	1.40E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	I-131	3	7.03E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	RU-106	3	6.53E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
BLUE CRAB (PCI/KG(WET))	GAMMA	CS-137	3	7.90E+00	< LLD (0 /2)	< LLD (0 /1)	33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SUMMER FLOUNDER (PCI/KG(WET))	GROSS ALPHA		3	4.88E+01	4.59E+01 (1 /1) (4.59E+01 - 4.59E+01)	1.75E+02(2 /2) (3.82E+01 - 3.11E+02)	93
SUMMER FLOUNDER (PCI/KG(WET))	GROSS BETA		3	3.94E+01	1.19E+04 (1 /1) (1.19E+04 - 1.19E+04)	7.26E+03(2 /2) (7.09E+03 - 7.44E+03)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	CE-144	3	8.57E+01	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	CS-134	3	1.02E+01	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	CO-58	3	1.20E+01	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	MN-54	3	1.01E+01	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	FE-59	3	3.10E+01	< LLD (0 /1)	< LLD (0 /2)	93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	ZN-65	3	2.33E+01	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	CO-60	3	1.13E+01	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	K-40	3	4.37E+02	4.10E+03 (1 /1) (4.10E+03 - 4.10E+03)	3.75E+03(2 /2) (3.70E+03 - 3.80E+03)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	BE-7	3	1.16E+02	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	ZR-95	3	2.43E+01	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	NB-95	3	1.25E+01	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	CE-141	3	3.20E+01	< LLD (0 /1)	< LLD (0 /2)	93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	RU-103	3	1.54E+01	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	BA-140	3	9.90E+01	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	LA-140	3	3.60E+01	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	RA-226	3	2.35E+02	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	TH-228	3	2.20E+01	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	I-131	3	1.03E+02	< LLD (0 /1)	< LLD (0 /2)	93
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	RU-106	3	8.47E+01	< LLD (0 /1)	< LLD (0 /2)	93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SUMMER FLOUNDER (PCI/KG(WET))	GAMMA	CS-137	3	1.16E+01	1.20E+01 (1 /1) (1.20E+01 - 1.20E+01)	< LLD (0 /2)	93
CLAMS (PCI/KG(WET))	GROSS ALPHA		18	6.13E+01	1.71E+02 (12 /12) (8.64E+01 - 2.80E+02)	2.93E+02(6 /6) (5.98E+01 - 7.03E+02)	23 24 25
CLAMS (PCI/KG(WET))	GROSS BETA		18	5.36E+01	2.38E+03 (12 /12) (1.68E+03 - 3.92E+03)	2.84E+03(6 /6) (1.57E+03 - 4.60E+03)	23 24 25
CLAMS (MG/GM(WET))	CALCIUM BY AA		10	2.33E-01	1.25E+00 (6 /6) (5.57E-01 - 2.64E+00)	1.71E+00(4 /4) (7.67E-01 - 2.88E+00)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-144	11	5.10E+01	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-134	11	6.85E+00	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-58	11	7.18E+00	< LLD (0 /7)	< LLD (0 /4)	23 24 25

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	MN-54	11	6.42E+00	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	FE-59	11	1.75E+01	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZN-65	11	1.48E+01	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CO-60	11	8.29E+00	1.45E+01 (2 /7) (1.30E+01 - 1.60E+01)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	K-40	11	2.43E+02	1.37E+03 (7 /7) (1.10E+03 - 1.70E+03)	1.55E+03(4 /4) (1.30E+03 - 1.80E+03)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BE-7	11	7.06E+01	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	ZR-95	11	1.52E+01	< LLD (0 /7)	< LLD (0 /4)	23 24 25

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	NB-95	11	7.48E+00	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CE-141	11	1.69E+01	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-103	11	9.38E+00	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	BA-140	11	5.87E+01	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	LA-140	11	2.10E+01	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RA-226	11	1.44E+02	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	TH-228	11	1.28E+01	< LLD (0 /7)	< LLD (0 /4)	23 24 25

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
CLAMS (PCI/KG(WET))	GAMMA	I-131	11	5.97E+01	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	RU-106	11	5.70E+01	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	GAMMA	CS-137	11	7.07E+00	< LLD (0 /7)	< LLD (0 /4)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-89		5	2.92E+00	< LLD (0 /3)	< LLD (0 /2)	23 24 25
CLAMS (PCI/KG(WET))	STRONTIUM-90		5	1.76E+00	< LLD (0 /3)	< LLD (0 /2)	23 24 25
WHITE PERCH (PCI/KG(WET))	GROSS ALPHA		2	1.13E+02	1.60E+02 (1 /1) (1.60E+02 - 1.60E+02)	8.81E+02(1 /1) (8.81E+02 - 8.81E+02)	93
WHITE PERCH (PCI/KG(WET))	GROSS BETA		2	4.90E+01	2.35E+03 (1 /1) (2.35E+03 - 2.35E+03)	1.46E+04(1 /1) (1.46E+04 - 1.46E+04)	93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE		BACKGROUND-MEAN(N/TOTAL) RANGE		STATIONS USED FOR INDICATOR MEAN
WHITE PERCH (PCI/KG(WET))	GAMMA	CE-144	3	1.49E+02	< LLD	(0 /2)	< LLD	(0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	CS-134	3	2.55E+01	< LLD	(0 /2)	< LLD	(0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	CO-58	3	2.69E+01	< LLD	(0 /2)	< LLD	(0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	MN-54	3	2.34E+01	< LLD	(0 /2)	< LLD	(0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	FE-59	3	6.60E+01	< LLD	(0 /2)	< LLD	(0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	ZN-65	3	5.30E+01	< LLD	(0 /2)	< LLD	(0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	CO-60	3	2.06E+01	< LLD	(0 /2)	< LLD	(0 /1)	93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WHITE PERCH (PCI/KG(WET))	GAMMA	K-40	3	8.00E+02	3.45E+03 (2 /2) (3.40E+03 - 3.50E+03)	4.60E+03(1 /1) (4.60E+03 - 4.60E+03)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	BE-7	3	2.33E+02	< LLD (0 /2)	< LLD (0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	ZR-95	3	5.60E+01	< LLD (0 /2)	< LLD (0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	NB-95	3	2.78E+01	< LLD (0 /2)	< LLD (0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	CE-141	3	5.47E+01	< LLD (0 /2)	< LLD (0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	RU-103	3	3.18E+01	< LLD (0 /2)	< LLD (0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	BA-140	3	2.15E+02	< LLD (0 /2)	< LLD (0 /1)	93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WHITE PERCH (PCI/KG(WET))	GAMMA	LA-140	3	7.93E+01	< LLD (0 /2)	< LLD (0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	RA-226	3	3.81E+02	< LLD (0 /2)	< LLD (0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	TH-228	3	4.03E+01	< LLD (0 /2)	< LLD (0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	I-131	3	2.12E+02	< LLD (0 /2)	< LLD (0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	RU-106	3	1.91E+02	< LLD (0 /2)	< LLD (0 /1)	93
WHITE PERCH (PCI/KG(WET))	GAMMA	CS-137	3	2.52E+01	1.40E+01 (2 /2) (1.30E+01 - 1.50E+01)	< LLD (0 /1)	93
SOIL (PCI/KG(DRY))	GROSS BETA		20	2.25E+03	8.86E+03 (20 /20) (2.28E+03 - 3.18E+04)	* (* /*) (* - *)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	CE-144	11	7.80E+01	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-134	11	1.06E+01	2.80E+01 (1 /11) (2.80E+01 - 2.80E+01)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-58	11	1.08E+01	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	MN-54	11	8.75E+00	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	FE-59	11	2.75E+01	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZN-65	11	1.94E+01	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CO-60	11	8.15E+00	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	K-40	11	2.38E+02	1.77E+03 (11 /11) (6.00E+02 - 7.00E+03)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BE-7	11	1.52E+02	5.10E+02 (3 /11) (1.20E+02 - 9.10E+02)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	ZR-95	11	2.73E+01	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	NB-95	11	1.48E+01	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CE-141	11	3.95E+01	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-103	11	1.91E+01	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	BA-140	11	2.42E+02	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SOIL (PCI/KG(DRY))	GAMMA	LA-140	11	9.69E+01	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RA-226	11	2.35E+02	1.23E+03 (11 /11) (3.50E+02 - 5.90E+03)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	TH-228	11	2.95E+01	3.86E+02 (11 /11) (2.40E+02 - 9.60E+02)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	I-131	11	4.45E+02	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	RU-106	11	8.22E+01	< LLD (0 /11)	* (* /*) (* - *)	1 2 3 4 5
SOIL (PCI/KG(DRY))	GAMMA	CS-137	11	2.77E+01	4.03E+02 (11 /11) (1.00E+01 - 9.30E+02)	* (* /*) (* - *)	1 2 3 4 5
WINTER FLOUNDER (PCI/KG(WET))	GROSS ALPHA		3	4.79E+01	9.37E+01 (2 /2) (7.74E+01 - 1.10E+02)	1.17E+02(1 /1) (1.17E+02 - 1.17E+02)	33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WINTER FLOUNDER (PCI/KG(WET))	GROSS BETA		3	1.72E+01	4.51E+03 (2 /2) (4.48E+03 - 4.55E+03)	7.39E+03(1 /1) (7.39E+03 - 7.39E+03)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CE-144	3	6.90E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CS-134	3	9.10E+00	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CO-58	3	1.02E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	MN-54	3	8.70E+00	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	FE-59	3	2.70E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	ZN-65	3	2.17E+01	< LLD (0 /2)	< LLD (0 /1)	33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CO-60	3	9.23E+00	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	K-40	3	3.93E+02	3.80E+03 (2 /2) (3.80E+03 - 3.80E+03)	4.20E+03(1 /1) (4.20E+03 - 4.20E+03)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	BE-7	3	1.05E+02	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	ZR-95	3	2.17E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	NB-95	3	1.10E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CE-141	3	2.57E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	RU-103	3	1.40E+01	< LLD (0 /2)	< LLD (0 /1)	33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	BA-140	3	1.02E+02	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	LA-140	3	3.33E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	RA-226	3	1.77E+02	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	TH-228	3	1.57E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	I-131	3	1.02E+02	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	RU-106	3	8.10E+01	< LLD (0 /2)	< LLD (0 /1)	33 93
WINTER FLOUNDER (PCI/KG(WET))	GAMMA	CS-137	3	1.00E+01	< LLD (0 /2)	< LLD (0 /1)	33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GROSS BETA		6	1.13E+02	6.43E+03 (6 /6) (4.55E+03 - 1.00E+04)	* (* /*) (* - *)	28 29 30
PASTURE (MG/GM(WET))	CALCIUM BY AA		6	4.76E-01	2.06E+00 (5 /6) (7.40E-01 - 4.54E+00)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-144	6	2.97E+02	< LLD (0 /6)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CS-134	6	4.07E+01	5.30E+01 (2 /6) (3.80E+01 - 6.80E+01)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-58	6	4.20E+01	< LLD (0 /6)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	MN-54	6	3.58E+01	< LLD (0 /6)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	FE-59	6	1.00E+02	< LLD (0 /6)	* (* /*) (* - *)	28 29 30

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	ZN-65	6	7.35E+01	< LLD (0 /6)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CO-60	6	3.97E+01	1.30E+02 (1 /6) (1.30E+02 - 1.30E+02)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	K-40	6	8.83E+02	2.94E+03 (5 /6) (1.50E+03 - 3.80E+03)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BE-7	6	1.02E+03	8.12E+03 (6 /6) (1.90E+03 - 2.00E+04)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	ZR-95	6	8.95E+01	< LLD (0 /6)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	NB-95	6	4.60E+01	< LLD (0 /6)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	CE-141	6	1.10E+02	< LLD (0 /6)	* (* /*) (* - *)	28 29 30

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	RU-103	6	6.58E+01	8.80E+01 (2 /6) (6.60E+01 - 1.10E+02)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	BA-140	6	4.78E+02	< LLD (0 /6)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	LA-140	6	1.67E+02	< LLD (0 /6)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RA-226	6	8.35E+02	< LLD (0 /6)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	TH-228	6	7.55E+01	< LLD (0 /6)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	I-131	6	6.48E+02	< LLD (0 /6)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	GAMMA	RU-106	6	3.43E+02	< LLD (0 /6)	* (* /*) (* - *)	28 29 30

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH,1986 THROUGH JUNE,1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
PASTURE (PCI/KG(WET))	GAMMA	CS-137	6	6.92E+01	5.51E+02 (5 /6) (8.60E+01 - 1.80E+03)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-89		6	2.96E+01	< LLD (0 /6)	* (* /*) (* - *)	28 29 30
PASTURE (PCI/KG(WET))	STRONTIUM-90		6	4.20E+00	1.74E+02 (6 /6) (1.68E+01 - 3.86E+02)	* (* /*) (* - *)	28 29 30
SEDIMENT (PCI/KG(DRY))	GROSS ALPHA		20	4.26E+03	1.28E+04 (9 /16) (6.28E+03 - 2.95E+04)	6.91E+03(1 /4) (6.91E+03 - 6.91E+03)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GROSS BETA		20	2.07E+03	1.48E+04 (16 /16) (2.52E+03 - 3.84E+04)	2.01E+04(4 /4) (1.72E+04 - 2.21E+04)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-144	36	1.07E+02	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-134	36	1.70E+01	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-58	36	1.77E+01	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	MN-54	36	1.50E+01	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	FE-59	36	4.94E+01	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	ZN-65	36	3.57E+01	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	CO-60	36	1.99E+01	1.40E+02 (16 /29) (8.50E+00 - 6.10E+02)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	K-40	36	5.66E+02	6.05E+03 (29 /29) (4.80E+02 - 1.70E+04)	1.26E+04(7 /7) (8.90E+03 - 1.50E+04)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	BE-7	36	2.06E+02	5.64E+02 (7 /29) (1.90E+02 - 9.80E+02)	4.30E+02(2 /7) (3.30E+02 - 5.30E+02)	23 24 25 26 27 32 33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	ZR-95	36	4.27E+01	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	NB-95	36	2.22E+01	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	CE-141	36	5.02E+01	< LLD (0 /29)	1.40E+02(1 /7) (1.40E+02 - 1.40E+02)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-103	36	2.63E+01	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	BA-140	36	3.12E+02	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	LA-140	36	1.26E+02	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	RA-226	36	3.24E+02	1.14E+03 (29 /29) (4.00E+02 - 2.00E+03)	9.24E+02(7 /7) (7.40E+02 - 1.10E+03)	23 24 25 26 27 32 33 93

TABLE 16
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY
OYSTER CREEK NUCLEAR GENERATING STATION
MARCH, 1986 THROUGH JUNE, 1986
SECOND QUARTER SUMMARY

SAMPLE TYPE	ANALYSIS	ISOTOPE	NUMBER OF ANALYSES PERFORMED	LLD	INDICATOR-MEAN(N/TOTAL) RANGE	BACKGROUND-MEAN(N/TOTAL) RANGE	STATIONS USED FOR INDICATOR MEAN
SEDIMENT (PCI/KG(DRY))	GAMMA	TH-228	36	4.35E+01	5.25E+02 (29 /29) (1.50E+02 - 1.00E+03)	5.41E+02(7 /7) (4.10E+02 - 8.00E+02)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	I-131	36	5.39E+02	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	RU-106	36	1.28E+02	< LLD (0 /29)	< LLD (0 /7)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	GAMMA	CS-137	36	2.28E+01	1.54E+02 (24 /29) (8.80E+00 - 3.50E+02)	1.05E+02(5 /7) (3.10E+01 - 2.40E+02)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	STRONTIUM-89		20	7.89E+01	< LLD (0 /16)	< LLD (0 /4)	23 24 25 26 27 32 33 93
SEDIMENT (PCI/KG(DRY))	STRONTIUM-90		20	3.86E+01	< LLD (0 /16)	< LLD (0 /4)	23 24 25 26 27 32 33 93

Analysis of Data

Tables 12 through 16 summarize the results of analyses performed on samples collected as part of Oyster Creek's Radiological Environmental Monitoring Program. Results of analyses were reported on a monthly basis, followed by a statistical analysis of the data. Results were compared to historical ranges for each media, station, and analysis combination. Any anomalous results were noted and appropriate action taken where applicable.

Many naturally-occurring isotopes (e.g., Ra-226, K-40, etc.) were detected in some environmental media, as evidenced in previous semiannual reports. Additionally, some site-specific nuclides from past facility discharges as documented in previous semiannual reports were detected (Co-60 and Ce-141 in aquatic sediment, and Co-60 in clams). Fission products from nuclear weapons testing were also detected in small amounts in predatory fish (Cs-137). Other media, such as soil and pasture samples also showed long-lived nuclear weapons testing related radionuclides such as Co-60 and Cs-137. Tritium was also detectable in surface water and precipitation samples. These conditions were detected throughout the reporting period and will no doubt be reported in future reports, as they are considered normal for this region of the United States.

In the months of December through April, TLD's near Oyster Creek (stations 1 and T1) showed slightly increased exposure due to the occasionally inoperable augmented off-gas system. While these exposures are higher than what is normally seen, they are still well within the federal limits allowed for Oyster Creek.

On April 26, 1986 the Chernobyl accident in the Soviet Union contributed approximately 50 million curies of radioactivity products to the atmosphere. Also in this month, Oyster Creek shut down for a maintenance and refueling outage. Therefore, any fission products detected after April are not likely due to Oyster Creek operations (with the exception of the previously noted instances) but to the Chernobyl accident. On May 5, 1986 significant amounts of I-131 (650 pCi/l) were detected west of the Rocky mountains. Soon after, air samples showed detectable amounts of Cs-134, Cs-137, Ru-103, I-131, Sr-89, and Sr-90 at Oyster Creek's background and indicator stations, and Cs-137 and Cs-134 were detected in pasture samples. In addition, Cs-137 and I-131 were detected in precipitation samples beginning in May. All of these nuclides are fission products which were detected at indicator and background stations and are directly attributed to the Chernobyl accident.

In conclusion, with the exception of the historically found facility specific nuclides and those detected as a result of the Chernobyl accident, no nuclides were detected in environmental media as a result of facility operations.

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 as well as the consumption of garden vegetables. Additionally, a third means of exposure is from direct radiation from Oyster Creek effluents. The maximum hypothetical exposure to any individual from liquid pathways would occur to someone standing at the offsite boundary on the shore of the discharge canal (direct exposure) and who consumes shellfish (ingestion). For purposes of this report this hypothetical individual is designated as Receptor #1. Maximum exposure due to gaseous pathways (inhalation, ingestion, and direct radiation) would depend on the predominant wind direction and the location of persons living in a sector around the plant. The direction and distance for this individual is given in Tables 17 and 18, pages 196 and 197.

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, pages 196, 197, and 198). Also included are the appropriate recommended 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.

TABLE 17

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE

PERIOD FROM JANUARY 1, 1986 THROUGH MARCH 31, 1986

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (MREM)	AGE GROUP	LOCATION DIST (m)	LOCATION DIR (TOWARD)
LIQUID*	-	-	-		-
LIQUID*	-	-	-		-
NOBLE GAS	AIR DOSE (γ-MRAD)	2.65		640	N
NOBLE GAS	AIR DOSE (β-MRAD)	2.08 E-1		522	SE
NOBLE GAS	TOTAL BODY	3.77	ALL	966	SE
NOBLE GAS	SKIN	3.90		966	SE
IODINE & PARTICULATE	THYROID	4.55 E-1	INFANT	966	SE

* There were no liquid releases during the period.

TABLE 18

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE

PERIOD FROM APRIL 1, 1986 THROUGH JUNE 30, 1986

EFFLUENT	APPLICABLE ORGAN	ESTIMATED DOSE (MREM)	AGE GROUP	LOCATION DIST (m)	LOCATION DIR (TOWARD)
LIQUID*	-	-	-	-	
LIQUID*	-	-	-	-	
NOBLE GAS	AIR DOSE (γ-MRAD)	3.59 E-1		640	N
NOBLE GAS	AIR DOSE (β-MRAD)	8.60 E-2		430	ESE
NOBLE GAS	TOTAL BODY	5.33 E-1		966	SE
NOBLE GAS	SKIN	5.60 E-1		966	SE
IODINE & PARTICULATE	THYROID	3.57 E-1	INFANT	966	SE

* No liquid releases during the period.

TABLE 19

SUMMARY OF MAXIMUM INDIVIDUAL DOSES FOR THE

PERIOD FROM JANUARY 1, 1986 THROUGH JUNE 30, 1986

EFFLUENT	APPLICABLE ORGAN	SEMIANNUAL ESTIMATED DOSE (MREM)	ANNUAL % APPLIC. LIMIT	ANNUAL LIMIT (MR)
LIQUID*	-	-	-	3.0
LIQUID*	-	-	-	10.0
NOBLE GAS	AIR DOSE (γ-MRAD)	3.01	30.1	10.0
NOBLE GAS	AIR DOSE (β-MRAD)	.294	1.5	20.0
NOBLE GAS	TOTAL BODY	4.30	0.86	500.0
NOBLE GAS	SKIN	4.46	29.7	15.0
IODINE & PARTICULATE	THYROID	.812	5.4	15.0

* No liquid releases during the period.