Exelon Generation Oyster Creek Generating Station Route 9 South PO Box 388 Forked River, NJ 08731

www.exeloncorp.com

10 CFR 50.36a(a)(2) 10 CFR 72.44 (d)(3) Technical Specification 6.9.1.d

RA-13-047

May 1, 2013

U. S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555 - 0001

> Oyster Creek Nuclear Generating Station Renewed Facility Operating License No. DPR-16 NRC Docket No. 50-219

Independent Spent Fuel Storage Facility NRC Docket No. 72-15

Subject: Annual Radioactive Effluent Release Report for 2012

Enclosed with this cover letter is the Annual Radioactive Effluent Release Report for the period January 1 to December 31, 2012. This report includes the Oyster Creek Nuclear Generating Station Independent Spent Fuel Storage Facility.

If any further information or assistance is needed, please contact Dave Chernesky, Chemistry Manager, at 609-971-4217.

Sincerely,

Garey L. Stathes Vice President – Oyster Creek Nuclear Generating Station

Enclosure: 2012 Annual Radioactive Effluent Release Report

cc: Administrator, USNRC Region I (w/o attachment) USNRC Senior Project Manager, Oyster Creek (w/o attachment) USNRC Senior Resident Inspector, Oyster Creek (w/o attachment) Craig Stewart, American Nuclear Insurers

LE48 NMS526





Annual Radioactive Effluent Release Report

2012

Oyster Creek Generating Station

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

January 1, 2012 through December 31, 2012 EXELON GENERATION COMPANY, LLC

OYSTER CREEK GENERATING STATION

DOCKET NO. 50-219 (Oyster Creek Generating Station)

DOCKET NO. 72-15 (Independent Spent Fuel Storage Facility)

Submitted to The United States Nuclear Regulatory Commission Pursuant to Renewed Facility Operating License DPR-16

TABLE OF CONTENTS

SEC	TIC	N	PAGE
EXE	ECU	ITIVE SUMMARY	1
1.	Intr	oduction	3
2.	Sup	oplemental Information	4
	A	Regulatory Limits	4
	В	Effluent Concentration Limits	5
	С	Average Energy	5
	D	Measurements and Approximations of Total Radioactivity	5
	Е	Batch Releases	9
	F	Abnormal Releases	9
	G	Revisions to the ODCM	9
	Н	Radiation Effluent Monitors Out of Service More Than 30 Days	10
	I	Releases from the Independent Spent Fuel Storage Facility	10
	J	Program Deviations	11
Арр	enc	lix A – Effluent and Waste Disposal Summary	12
Арр	enc	lix B – Solid Waste and Irradiated Fuel Shipments	19
Арр	enc	lix C – Radiological Impact to Man	25
Арр	enc	lix D – Meteorological Data	28
Арр	enc	lix E – ODCM Revisions	102
Арр	 2. Supplemental Information A Regulatory Limits B Effluent Concentration Limits C Average Energy D Measurements and Approximations of Total Radioactivity E Batch Releases F Abnormal Releases G Revisions to the ODCM H Radiation Effluent Monitors Out of Service More Than 30 Days I Releases from the Independent Spent Fuel Storage Facility 		103

(Page Intentionally Left Blank)

EXECUTIVE SUMMARY

Effluents are strictly monitored to ensure that radioactivity released to the environment is as low as reasonably achievable and does not exceed regulatory limits. Effluent control includes the operation of monitoring systems, in-plant and environmental sampling and analyses programs, quality assurance programs for effluent and environmental programs, and procedures covering all aspects of effluent and environmental monitoring.

Both radiological environmental and effluent monitoring indicate that the operation of Oyster Creek Generating Station (OCGS) does not result in significant radiation exposure of the people or the environment surrounding OCGS and is well below the applicable levels set by the Nuclear Regulatory Commission (NRC) and the Environmental Protection Agency (EPA).

There were liquid radioactive effluent releases during 2012 of concentrations of tritium too low to detect at an LLD of 200 picocuries per liter (pCi/L) at the New Jersey Pollution Discharge Elimination System (NJPDES) permitted main condenser outfall. The releases were part of nearly continuous pumping of groundwater at approximately 70 gpm containing low levels of tritium and no detectable gamma. Exelon and the State of New Jersey Department of Environmental Protection (NJDEP) agreed to this remediation action instead of natural attenuation to address concentrations of tritium in groundwater. Well 73 and supporting equipment and piping were installed to pump groundwater to the intake structure at the inlet of the main circulating water pumps. Provisions were established for both batch and continuous releases of groundwater. Continuous releases occurred approximately 257 days in 2012. The Continuous releases occurred from January 1, 2012 through December 31, 2012 with a total of 2.49E+07 gallons of groundwater pumped resulting in 3.30E-01 Ci of tritium released to the discharge canal. The dose to the most limiting member of the public due to the release of groundwater was 1.55E-06 mrem.

There were no liquid or gaseous abnormal releases during 2012.

The maximum hypothetical calculated organ dose (Bone) from iodines, tritium, carbon-14 (C-14), and particulates to any individual due to gaseous effluents was 5.60E-01 mrem, which was approximately 3.73E+00 percent of the annual limit of 15 mrem. The majority of organ dose from gaseous effluents was due to C-14. The maximum calculated gamma air dose in the UNRESTRICTED AREA due to noble gas effluents was 7.11E-03 mrad, which was 7.11E-02 percent of the annual 10 CFR 50 Appendix I, As Low As Reasonably Achievable (ALARA) limit of 10 mrad.

For comparison, the background radiation dose averages approximately 300 mrem per year in the Central New Jersey area, which includes approximately 200 mrem from naturally occurring radon gas and 100 mrem from background radiation.

The Independent Spent Fuel Storage Installation (ISFSI) is a closed system and the only exposure is due to direct radiation. Based on offsite TLD readings, dose due to direct radiation from the ISFSI was less than 1 mrem for 2012. Because it is a sealed unit, no radioactive material was released.

Comparison of environmental sampling results to iodine and particulate gaseous effluents released, showed no radioactivity attributable to the operation of OCGS. Both elevated and

ground-level release paths were considered in this review, with total iodines released of 7.30E-03 Ci and total particulates with half-lives greater than 8 days less C-14 released of 6.31E-02 Ci.

Joint Frequency Tables of meteorological data, per Stability Classification Category, as well as for all stability classes, are included. All data was collected from the on-site Meteorological Facility. Data recoveries for the 380-foot data and the 33-foot data were 97.7 percent and 97.9 percent, respectively. The UFSAR commits to Regulatory Guide (RG) 1.23 for Meteorological Facility data recovery. RG 1.23 requires data recovery of at least 90% on an annual basis.

1 <u>Introduction</u>

In accordance with the reporting requirements of Technical Specification 6.9.1.d applicable during the reporting period, this report summarizes the effluent release data for OCGS for the period January 1, 2012 through December 31, 2012. This submittal complies with the format described in Regulatory Guide 1.21, "Measuring, Evaluating and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants", Revision 1, June 1974.

Meteorological data was reported in the format specified in Regulatory Guide 1.23, Revision 1, "Meteorological Monitoring Programs for Nuclear Power Plants".

All vendor results were received and included in the report calculations. Therefore the 2012 report is complete.

2 Supplemental Information

Oyster Creek Generating Station

Exelon Generation Company, LLC

A. Regulatory Limits:

		Limit	Units	Receptor	ODCM and 10 CFR 50, Appendix I Design Objective Limits
1. N	loble	Gases:		······	
;	а.	≤ 500 ≤ 3000	mrem/yr mrem/yr	Total Body Skin	ODCM Control 3.11.2.1
	b.	≤ 5 ≤ 10	mrad mrad	Air Gamma Air Beta	Quarterly air dose limits ODCM Control 3.11.2.2
I	C.	≤ 10 ≤ 20	mrad mrad	Air Gamma Air Beta	Yearly air dose limits ODCM Control 3.11.2.2
I	d.	< 5	mrem	Total Body (Gamma)	10 CFR 50, Appendix I, Section II.B.2(b)
		< 15	mrem	Skin (Beta)	
2. lo	odines	s, Tritium, F	Particulates wit	h Half Life > 8 days:	
	a.	≤ 1500	mrem/yr	Any Organ	ODCM Control 3.11.2.1
	b.	≤7.5	mrem	Any Organ	Quarterly dose limits ODCM Control 3.11.2.3
1	C.	≤ 15	mrem	Any Organ	Yearly dose limits ODCM Control 3.11.2.3
	iquid a.	Effluents Concentra Table 2 C		0, Appendix B,	ODCM Control 3.11.1.1
	b.	≤ 1.5 ≤ 5	mrem mrem	Total Body Any Organ	Quarterly dose limits ODCM Control 3.11.1.2
I	C.	<u>≤</u> 3 <u>≤</u> 10	mrem mrem	Total Body Any Organ	Yearly dose limits ODCM Control 3.11.1.2

B. Effluent Concentration Limits:

Gaseous dose rates rather than effluent concentrations are used to calculate permissible release rates for gaseous releases. The maximum permissible dose rates for gaseous releases are defined in ODCM Controls 3.11.2.1.

The Effluent Concentration Limit (ECL) specified in 10 CFR 20, Appendix B, Table 2, Column 2 for identified nuclides, were used to calculate permissible release rates and concentrations for liquid release per ODCM Controls 3.11.1.1. The total activity concentration at the Route 9 bridge for all dissolved or entrained gases was limited to < 2E-04 μ Ci/ml.

C. Average Energy (\vec{E}):

The Oyster Creek ODCM limits the instantaneous dose equivalent rates due to the release of noble gases to less than or equal to 500 mrem/year to the total body and less than or equal to 3000 mrem/year to the skin. The average beta and gamma energies (\bar{E}) of the radionuclide mixture in releases of fission and activation gases as described in Regulatory Guide 1.21, "Measuring, Evaluating and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plant", may be used to calculate doses in lieu of more sophisticated software. The Oyster Creek radioactive effluent program employs the methodologies presented in U.S. NRC Regulatory Guide 1.109 "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I," Revision 1, October 1977. Therefore, average energy (\bar{E}) as described in Regulatory Guide 1.21 is not applicable to Oyster Creek.

- D. Measurements and Approximations of Total Radioactivity:
 - 1. Fission and Activation Gases

The method used for Gamma Isotopic Analysis is the Canberra Gamma Spectroscopy System with a gas Marinelli beaker. Airborne effluent gaseous activity was continuously monitored and recorded in accordance with the Off Site Dose Calculation Manual (ODCM) Table 4.11.2.1.2-1. Additional grab samples were taken from the stack Radioactive and Gaseous Effluent Monitoring System (RAGEMS) sample point and ground-level release sample points and analyzed at least monthly to determine the isotopic mixture of noble gas activity released for the month. If activity was found in the grab isotopic analysis, the results are entered into Simplified Environmental Effluent Dosimetry System (SEEDS) to calculate dose and dose rates. If no activity is detected in the stack grab samples, post treatment or Off Gas Isotopic Analysis data may be used.

2. <u>Iodines</u>

The method used for Gamma Isotopic Analysis is the Canberra Gamma Spectroscopy System with a charcoal cartridge. Iodine activity was continuously sampled and analyzed in accordance with ODCM Table 4.11.2.1.2-1. Charcoal samples are taken from the stack RAGEMS sample point and ground-level release sample points and analyzed at least weekly to determine the total activity released from the plant based on the average vent flow rates recorded for the sampling period.

3. <u>Particulates (half-lives > 8 days)</u>

The method used for Gamma Isotopic Analysis is the Canberra Gamma Spectroscopy System with a particulate filter (47 mm). Particulate activity was continuously sampled and analyzed in accordance with ODCM Table 4.11.2.1.2-1. Particulate samples are taken from the stack RAGEMS sample point and ground-level release sample points and analyzed at least weekly to determine the total activity released from the plant based on the average vent flow rates recorded for the sampling period.

- 4. <u>Tritium</u>
 - A. Gaseous Effluents

Air from stack and vent effluents was passed through a desiccant column and distilled to remove the moisture collected. An aliquot of the water from the distillate was analyzed for tritium using a liquid scintillation counter.

B. Liquid Effluents

Water from liquid effluents was analyzed for tritium using a liquid scintillation counter.

5. Gross Alpha

Gross alpha was measured by an off-site vendor for both the gas and liquid effluent composite samples.

6. <u>Hard-To-Detects</u>

Hard-To-Detects was measured by an off-site vendor for one set of gas monthly composites. The analysis included Fe-55, I-129, Ni-59, Ni-63, Tc-99, Am-241, Cm-242, Cm-243/244, Pu-238, Pu-239/240 and Pu241. The results of this analysis are utilized until the next Hard-To-Detect analysis is performed. In addition, Hard-To-Detects were measured for the month of November when the plant was shut down. 7. <u>Carbon-14 (C-14)</u>

The amount of C-14 (Ci) released was estimated using the guidance from EPRI Technical Report 1021106, Estimation of Carbon-14 in Nuclear Power Plant Gaseous Effluents. The C-14 was released primarily through the stack (97%) with a small amount (3%) released through plant vents. The activity in liquid effluents was determined to not be significant.

The offsite dose from C-14 was calculated using SEEDS, which uses approved ODCM methodologies. The resulting annual dose to a child from gaseous releases of C-14 is about 4.67E-01 mrem to the bone.

8. Liquid Effluents

Groundwater containing tritium was released during 2012. For continuous releases, tritium and principal gamma emitters were determined for a composite sample daily. The concentration of tritium is limited to ensure concentrations were less than 200 pCi/l in the discharge canal. The gamma emitters were limited to less than detectable concentrations. Gross alpha and Hard-to-detect analyses (Fe-55, Ni-63, Sr-89 and Sr-90) were determined for monthly composite samples for each type of release (batch or continuous).

The leaks into the groundwater were reported in the 2009 Annual Radioactive Effluent Release Report as abnormal releases. Estimates of the curies of the tritium releases were reported. Doses due to the release of the groundwater to the discharge canal were included in the report. To ensure that amount of activity discharge is accurate and limiting, the activity and doses as a result of discharges during 2012 from the groundwater remediation project are included in this report.

9. Estimated Total Error Present

Procedure CY-AA-170-2100, Estimated Errors of Effluent Measurements, provides the methodology to obtain an overall estimate of the error associated with radioactive effluents.

10. Composite Samples and Lower Limit of Detection (LLD)

Particulate air samples were composited monthly and analyzed for gross alpha, Sr-89 and Sr-90. Groundwater batch and continuous releases were composited at least monthly and analyzed for gross alpha, Sr-89, Sr-90, Fe-55 and Ni-63. These composites are submitted to an offsite vendor laboratory for analysis. The ODCM required LLD for liquid and airborne releases are as follows:

Liquid:	LLD
Principal Gamma Emitters (Mn-54, Fe-59, Co- 58, Co-60, Zn-65, Mo-99, I-131, Ce-141, Cs-	
134, Cs-137)	5E-07 µCi/ml
Principal Gamma Emitters (Ce-144)	5E-06 µCi/ml
Dissolved and Entrained Gases	1E-05 µCi/ml
H-3	1E-05 µCi/ml
Gross Alpha	1E-07 µCi/ml
Sr-89 and Sr-90	5E-08 µCi/ml
Fe-55 and Ni-63	1E-06 µCi/ml
Airborne	LLD
Principal Gamma Emitters (Kr-87, Kr-88, Xe- 133, Xe-133m, Xe-135, Xe-138)	1E-04 µCi/ml
H-3	1E-06 µCi/ml
I-131	1E-12 µCi/ml
I-133	1E-10 µCi/ml
Principal Gamma Emitters (Mn-54, Fe-59, Co- 58, Co-60, Zn-65, Cs-134, Cs-137, Ce-141)	1E-11 µCi/ml
Principal Gamma Emitters (Mo-99, Ce-144)	1E-10 µCi/ml
Gross Alpha	1E-11 µCi/ml
Sr-89, Sr-90	1E-11 µCi/ml

E. Batch Releases:

1. <u>Liquid</u>

There were no batch releases of liquid effluents during 2012.

2. <u>Gaseous</u>

There were no batch releases of gaseous effluents during 2012.

F. Abnormal Releases:

There were no abnormal liquid or gaseous releases during 2012.

G. Revisions to the ODCM:

There were no revisions to the ODCM during 2012.

H. Radiation Effluent Monitors Out of Service More Than 30 Days

Per ODCM Control 3.3.3.10, "Radioactive Liquid Effluent Monitoring Instrumentation" and 3.3.3.11, Radioactive Gaseous Effluent Monitoring Instrumentation requires:

With less than the minimum number of radioactive liquid/gaseous effluent monitoring instrumentation channels OPERABLE, take the ACTION shown in Table 3.3.3.10-1/3.3.3.11-1. Make every reasonable effort to return the instrument to OPERABLE status within 30 days and, if unsuccessful, explain in the next Radioactive Effluent Release Report why the inoperability was not corrected in a timely manner.

The following is a discussion of instrumentation out of service for greater than 30 days:

- The Offgas Building Exhaust Gaseous Effluent Radioactive Noble Gas Monitor was out of service from 7/31/2012 through 9/28/2012. The monitor was taken out of service 7/31/2012 for failing the monitor functional test. The original issue for the monitor failing the functional test was a faulty pushbutton on the alarm panel causing the alarm not to function. Parts were ordered and replaced on 8/17/12 but the alarm still did not function as expected. After multiple troubleshooting attempts it was determined that the original part replaced had internal wiring that was different than the original part which resulted in opposite actuation compared to the original part. After changing the wiring in the alarm panel, all alarms responded as expected. This issue was entered into our Corrective Action Program (CAP) and corrective actions taken have been documented per process.
- I. Releases from the Independent Spent Fuel Storage Facility:

The ISFSI is a closed system and the only exposure would be due to direct radiation. This includes iodines, particulates, and noble gases. Based on offsite TLD readings, dose due to direct radiation from the ISFSI was less than 1 mrem for 2012. Because it is a sealed unit, no radioactive material was released.

- J. Program Deviations:
 - A turbine building (TB) effluent noble gas grab sample was not collected for September 2012. This sample is a requirement of Table 4.11.2.1.2-1, Radioactive Gaseous Waste Sampling and Analysis Program, of CY-OC-170-301, ODCM for Oyster Creek. The September sample was originally scheduled to be collected 8/31/12, but was rescheduled to occur the following week so it could be collected in September. The sample was not rescheduled and tracked by the Chemistry Supervisor adequately, and a sample was not collected until the scheduled October sample 10/5/12. Historical data from September's TB RAGEMS low range monitor was trended against the data from August and October with no discrepancies noted. There were no isotopes identified in the Noble Gas Grab Samples from August and October. This issue was entered into our Corrective Action Program (CAP) and corrective actions taken have been documented per process.
 - 2. The groundwater remediation composite sampler was found out of service for less than eight hours on October 19, 2012. The composite sampler is required by ODCM Table 4.11.1.1-1, Radioactive Liquid Waste Sampling and Analysis Program. There was enough sample in the composite sampler to perform the required analyses and the composite sampler was immediately returned to service. This issue was entered into our Corrective Action Program (CAP) and corrective actions taken have been documented per process.

.

Appendix A Effluent and Waste Disposal Summary

LIST OF TABLES

PAGE

Table A - 1 Gaseous Effluents – Summary of All Releases	14
Table A - 2 Gaseous Effluents Release Point: Elevated Release	15
Table A - 3 Gaseous Effluents Release Point: Ground Level Releases	16
Table A - 4 Liquid Effluents – Summary of All Releases	17
Table A - 5 Liquid Release Point: Groundwater Remediation	18

Oyster Creek 2012 Annual Radioactive Effluent Release Report

Table A-1: Gaseous Effluents - Summary Of All Releases

Period: January 1, 2012 through December 31, 2012

Unit: Oyster Creek

						Est. Total
A. Fission & Activation Gases	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Error %
1. Total Release	Ci	4.28E+01	5.49E+01	6.10E+01	5.04E+01	25.00%
2. Average Release Rate for Period	µCi/sec	5.44E+00	6.99E+00	7.67E+00	6.34E+00	
3. Gamma Air Dose	mrad	1.72E-03	2.70E-03	3.69E-03	1.47E-03	
4. Beta Air Dose	mrad	9.49E-04	1.06E-03	4.93E-03	3.41E-04	
5. Percent of ODCM Limit						
- Gamma Air Dose	%	3.44E-02	5.40E-02	7.38E-02	2.94E-02	
- Beta Air Dose	%	9.49E-03	1.06E-02	4.93E-02	3.41E-03	
B. Iodines			No.			
1. Total – I-131	Ci	3.82E-04	5.50E-04	1.07E-03	6.37E-04	25.00%
2. Average Release Rate for Period	µCi/sec	4.86E-05	7.00E-05	1.35E-04	8.02E-05	
3. Percent of ODCM limit	%	*	*	*	*	
C. Particulate						
1. Particulates with T 1/2 > 8 days	Ci	1.54E-02	1.44E-02	1.73E-02	1.60E-02	25.00%
2. Average Release Rate for Period	µCi/sec	1.96E-03	1.83E-03	2.17E-03	2.01E-03	
3. Percent of ODCM limit	%	*	*	*	*	
D. Tritium						
1. Total Release	Ci	1.07E+01	1.06E+01	9.27E+00	1.04E+01	25.00%
2. Average Release Rate for Period	µCi/sec	1.36E+00	1.34E+00	1.17E+00	1.30E+00	
3. Percent of ODCM limit	%	*	*	*	*	
E. Gross Alpha						
1. Total Release	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td>25.00%</td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td>25.00%</td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td>25.00%</td></lld<></td></lld<>	<lld< td=""><td>25.00%</td></lld<>	25.00%
2. Average Release Rate for Period	µCi/sec	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td></td></lld<></td></lld<>	<lld< td=""><td></td></lld<>	
3. Percent of ODCM limit	%	*	*	*	*	
F. Carbon-14						
1. Total Release	Ci	2.49E+00	2.49E+00	2.53E+00	2.53E+00	
2. Average Release Rate for Period	µCi/sec	3.17E-01	3.17E-01	3.18E-01	3.18E-01	
3. Percent of ODCM limit	%	*	*	*	*	
G. Iodine 131 & 133, Tritium &	Particulat	e				
1. Organ Dose	mrem	3.74E-02	1.58E-01	2.44E-01	1.23E-01	
2. Percent of ODCM Limit	%	4.99E-01	2.11E+00	3.25E+00	1.64E+00	

* ODCM Limit is for combined lodine, tritium, Carbon-14 and particulate only, which is shown in Item G.

Table A-2: Gaseous Effluents Release Point: Elevated Release

Period: January 1, 2012 through December 31, 2012

Unit: Oyster Creek

Nuclides Released			Continuc	ous Mode			Batch	Mode	
1. Fission gases	Unit	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter
		1	2	3	4	1	2	3	4
Kr- 85	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Kr- 85m	Ci	8.22E-01	3.03E+00	1.96E+00	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Kr-87	Ci	4.65E+00	4.87E+00	6.80E+00	1.11E+00	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Kr-88	Ci	3.50E+00	1.02E+01	5.03E+00	1.16E+01	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-133	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td>2.03E+00</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td>2.03E+00</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>2.03E+00</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	2.03E+00	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-135	Ci	3.12E+01	3.35E+01	3.89E+01	3.56E+01	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-135m	Ci	<lld< td=""><td>6.61E-01</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	6.61E-01	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-137	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-138	Ci	2.60E+00	2.67E+00	7.36E+00	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ar-41	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period	Ci	4.28E+01	5.49E+01	6.01E+01	5.03E+01	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
2. lodines									
I-131	Ci	3.82E-04	5.50E-04	1.07E-03	6.29E-04	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
I-133	Ci	6.19E-04	1.09E-03	2.02E-03	9.27E-04	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
I-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period	Ci	1.00E-03	1.64E-03	3.09E-03	1.56E-03	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
3. Particulates									
Sr-89	Ci	1.75E-03	8.94E-04	1.22E-03	6.51E-03	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sr-90	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td>1.39E-05</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td>1.39E-05</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>1.39E-05</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	1.39E-05	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-134	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-137	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td>5.80E-05</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td>5.80E-05</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>5.80E-05</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	5.80E-05	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ba-140	Ci	2.05E-03	1.31E-03	2.46E-03	4.71E-03	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
La-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cr-51	Ci	<lld< td=""><td><lld< td=""><td>9.77E-04</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>9.77E-04</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	9.77E-04	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Mn-54	Ci	5.78E-04	5.57E-04	1.10E-03	7.82E-04	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-58	Ci	1.24E-03	1.50E-03	1.84E-03	8.34E-04	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-60	Ci	2.04E-03	2.22E-03	3.12E-03	1.38E-03	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ni-63	Ci	<lld< td=""><td><lld< td=""><td>2.85E-04</td><td>5.77E-04</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>2.85E-04</td><td>5.77E-04</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	2.85E-04	5.77E-04	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Mo-99	Ci	1.88E-04	2.03E-04	3.38E-04	1.24E-04	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ag-110m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ce-141	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ce-144	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Fe-55	Ci	<lld< td=""><td><lld< td=""><td>2.99E-04</td><td>6.04E-04</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>2.99E-04</td><td>6.04E-04</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	2.99E-04	6.04E-04	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Fe-59	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Zn-65	Ci	6.07E-04	7.60E-04	1.00E-03	3.09E-04	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period	Ci	8.45E-03	7.44E-03	1.26E-02	1.59E-02	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
4. Tritium									
H-3	Ci	1.05E+01	1.02E+01	8.67E+00	9.88E+00	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
5. Gross Alpha						Sheper Ly			
Gross Alpha	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
6. Carbon-14		diam'r ar	Harry Carlo						
C-14	Ci	2.42E+00	2.42E+00	2.45E+00	2.45E+00	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>

Table A-3: Gaseous Effluent Release Point: Ground Level Releases

Period: January 1, 2012 through December 31, 2012

Unit: Oyster Creek

Nuclides									
Released			Continuo	ous Mode			Batch		
1. Fission gases	Unit		Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter
		1	2	3	4	1	2	3	4
Kr- 85	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Kr- 85m	Ci	<lld< td=""><td><lld< td=""><td>1.87E-02</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>1.87E-02</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	1.87E-02	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Kr-87	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Kr-88	Ci	<lld< td=""><td><lld< td=""><td>1.01E-02</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>1.01E-02</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	1.01E-02	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-133	Ci	<lld< td=""><td><lld< td=""><td>9.26E-01</td><td>5.33E-02</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>9.26E-01</td><td>5.33E-02</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	9.26E-01	5.33E-02	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-133m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-135m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-138	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ar-41	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period	Ci	<lld< td=""><td><lld< td=""><td>9.55E-01</td><td>5.33E-02</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>9.55E-01</td><td>5.33E-02</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	9.55E-01	5.33E-02	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
2. lodines			:						
l-131	Ci	1.24E-07	1.58E-07	2.84E-07	8.12E-06	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
I-133	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
I-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period	Ci	1.24E-07	1.58E-07	2.84E-07	8.12E-06	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
3. Particulates			÷ .						
Sr-89	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sr-90	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-134	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-137	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ba-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
La-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cr-51	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Mn-54	Ci	<lld< td=""><td>5.04E-07</td><td>1.17E-06</td><td>3.63E-06</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	5.04E-07	1.17E-06	3.63E-06	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-58	Ci	<lld< td=""><td><lld< td=""><td>1.65E-07</td><td>2.92E-07</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>1.65E-07</td><td>2.92E-07</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	1.65E-07	2.92E-07	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-60	Ci	1.06E-06	5.63E-06	6.81E-06	1.12E-05	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ni-63	Ci	<lld< td=""><td><lld< td=""><td>2.75E-05</td><td>4.15E-05</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>2.75E-05</td><td>4.15E-05</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	2.75E-05	4.15E-05	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Mo-99	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ag-110m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ce-141	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ce-144	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Fe-55	Ci	6.96E-03	6.97E-03	4.61E-03	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Fe-59	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Zn-65	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Am-241	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td>4.94E-06</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td>4.94E-06</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td>4.94E-06</td><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	4.94E-06	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period	Ci	6.96E-03	6.98E-03	4.65E-03	6.16E-05	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
4. Tritium									
H-3	Ci	1.87E-01	3.62E-01	6.00E-01	4.75E-01	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
5. Gross Alpha				L					
Gross Alpha	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
6. Carbon-14									
C-14	Ci	7.48E-02	7 41E-02	7.57E-02	7.57E-02	<lļd< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lļd<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
<u> </u>	U	1.40L-02	UZ	1.57 -02	1.012-02	~_40		-LLD	-LLD

Table A-4: Liquid Effluents - Summary Of All Releases

Period: January 1, 2012 through December 31, 2012

Unit: Oyster Creek

A. Fission & Activation Products	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Est. Total Error %
 Total Release not including tritium, gases, alpha 	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td>25.00%</td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td>25.00%</td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td>25.00%</td></lld<></td></lld<>	<lld< td=""><td>25.00%</td></lld<>	25.00%
 Average Diluted concentration during period 	µCi/ml	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td></td></lld<></td></lld<>	<lld< td=""><td></td></lld<>	
3. Total Body Dose	mrem	5.30E-07	2.87E-07	5.37E-07	2.00E-07	
4. Organ Dose	mrem	5.30E-07	2.87E-07	5.37E-07	2.00E-07	
3. Percent of ODCM Limit						
-Total Body Dose	%	3.53E-05	1.91E-05	3.58E-05	1.33E-05	
-Organ Dose	%	1.06E-05	5.74E-06	1.07E-05	4.00E-06	

B. Tritium

	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Est. Total Error %
1. Total Release	Ci	1.14E-01	6.12E-02	1.13E-01	4.27E-02	25.00%
 Average diluted concentration during period 	µCi/ml	2.42E-10	2.08E-10	2.74E-10	2.00E-10	
3. Percent of 10CFR20 limit	%	2.42E-05	2.08E-05	2.74E-05	2.00E-05	

C. Dissolved and Entrained Gases

	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Est. Total Error %
1. Total Release	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td>25.00%</td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td>25.00%</td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td>25.00%</td></lld<></td></lld<>	<lld< td=""><td>25.00%</td></lld<>	25.00%
2. Average diluted concentration	µCi/ml	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td></td></lld<></td></lld<>	<lld< td=""><td></td></lld<>	
3. Percent of ODCM limit	%	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td></td></lld<></td></lld<>	<lld< td=""><td></td></lld<>	

D. Gross Alpha Activity

		Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Est. Total Error %
1. T	otal Release	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td>25.00%</td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td>25.00%</td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td>25.00%</td></lld<></td></lld<>	<lld< td=""><td>25.00%</td></lld<>	25.00%
E.	Volume of Waste Released		1				
	prior to dilution	Liters	3.17E+07	1.69E+07	3.04E+07	1.53E+07	
F.	Volume of Dilution Water						
	Used During Period	Liters	4.72E+11	2.94E+11	4.12E+11	2.14E+11	

Table A-5: Liquid Release Point: Groundwater Remediation

Period: January 1, 2012 through December 31, 2012

Unit: Oyster Creek

Nuclides										
Released			Continuo	ous Mode			Batch	Mode		
Fission &	Unit									
Activation		Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	
Products		1	2	3	4	1	2	3	4	
Sr-89	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Sr-90	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Cs-134	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Cs-137	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
I-131	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Co-58	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Co-60	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Fe-59	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Zn-65	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Mn-54	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Cr-51	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Zr-95	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Nb-95	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Mo-99	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Tc-99m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Ba-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
La-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Ce-141	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Ag-110m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Fe-55	Ċi	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Ce-144	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Total for Perio	d	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Dissolved En	traine	ed Gases				са) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
Xe-133	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Xe-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Tritium			4							
H-3	Ci	1.14E-01	6.12E-02	1.13E-01	4.27E-02	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	
Gross Alpha						1 L. 				
Gross Alpha	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>	

Appendix B Solid Waste and Irradiated Fuel Shipments

- A. Solid waste shipped offsite for burial or disposal (not irradiated fuel)
- 1. Type of waste

Types of Waste	Total	Total	Period	Est. Total
	Quantity	Activity		Error%
	(m ³)	(Ci)		
a. Spent resins, filter sludges, evaporator bottom, etc	7.09E+01	4.09E+02	2012	2.50E+01
b. Dry compressible waste, contaminated equip, etc	9.39E+02	4.77E-01	2012	2.50E+01
c. Irradiated components, control rods,etc	0.00E+00	0.00E+00	2012	2.50E+01
d. Other	2.15E+02	4.04E+00	2012	2.50E+01

1. Estimate of Major Nuclide Composition (By Waste Type)

Category A – Spent Resin, Filters, Sludges, Evaporator Bottoms, etc.

Isotope	Waste	Class A	Waste Class B		
	Curies	Curies Percent		Percent	
H-3	4.86E-02	5.64E-02	4.06E-02	1.26E-02	
C-14	1.50E-01	1.74E-01	2.47E-02	7.64E-03	
Cr-51					
Mn-54	6.80E+00	7.90E+00	9.06E+00	2.80E+00	
Fe-55	5.36E+01	6.23E+01	2.26E+02	6.99E+01	
Fe-59			4.91E-02	1.52E-02	
Co-57	2.97E-04	3.45E-04	1.86E-03	5.76E-04	
Co-58	2.62E-02	3.04E-02	7.18E-02	2.22E-02	
Co-60	2.20E+01	2.56E+01	5.11E+01	1.58E+01	
Ni-59			3.21E-03	9.93E-04	
Ni-63	1.05E+00	1.22E+00	2.62E+00	8.11E-01	
Zn-65	1.15E+00	1.34E+00	1.74E+00	5.38E-01	
Sr-89	1.92E-03	2.23E-03	4.50E-06	1.39E-06	
Sr-90	6.19E-03	7.19E-03	1.52E-01	4.70E-02	
Nb-95			7.14E-03	2.21E-03	
Tc-99	9.09E-03	1.06E-02			
Ag-110m					
Sb-125	9.32E-03	1.08E-02			
Cs-134	2.33E-04	2.71E-04	1.12E+00	3.47E-01	
Cs-137	1.12E+00	1.30E+00	3.09E+01	9.56E+00	
Ce-144	1.01E-01	1.17E-01	1.37E-01	4.24E-02	
Pu-238	4.15E-04	4.82E-04	2.84E-03	8.79E-04	
Pu-239	1.13E-04	1.31E-04	9.01E-04	2.79E-04	
Pu-240	The Second Second				
Pu-241	2.54E-02	2.95E-02	8.33E-02	2.58E-02	
Am-241	4.17E-04	4.84E-04	4.15E-03	1.28E-03	
Cm-242	6.97E-05	8.10E-05	1.29E-03	3.99E-04	
Cm-243	2.83E-04	3.29E-04	2.05E-03	6.34E-04	
Cm-244	2.80E-04	3.25E-04	1.57E-03	4.86E-04	
Totals	8.61E+01	1.00E+02	3.23E+02	1.00E+02	

Note: Grey fields are where results were not reported in the NRC Regulatory Guide 1.21 Report

Isotope	Waste Class A		
	Curies	Percent	
H-3	4.68E-04	9.82E-02	
C-14	3.61E-04	7.58E-02	
Mn-54	6.38E-02	1.34E+01	
Fe-55	2.91E-01	6.11E+01	
Co-57	1.04E-05	2.18E-03	
Co-58	5.80E-04	1.22E-01	
Co-60	1.02E-01	2.14E+01	
Ni-63	5.45E-03	1.14E+00	
Zn-65	6.87E-03	1.44E+00	
Sr-89	1.88E-06	3.95E-04	
Sr-90	6.19E-06	1.30E-03	
Tc-99	1.96E-04	4.11E-02	
Sb-125	1.17E-03	2.46E-01	
Cs-137	3.55E-03	7.45E-01	
Ce-144	8.78E-04	1.84E-01	
Pu-238	5.15E-06	1.08E-03	
Pu-239	1.35E-06	2.83E-04	
Pu-241	1.76E-04	3.69E-02	
Am-241	5.86E-06	1.23E-03	
Cm-242	2.35E-06	4.93E-04	
Cm-243	4.31E-06	9.04E-04	
Cm-244	4.31E-06	9.04E-04	
Totals	4.77E-01	1.00E+02	

Category B – Dry Compressible Waste, Contaminated Equipment, etc.

Category C – Irradiated components, control rods, etc.

No Irradiated components, control rods, etc. shipped

Category D - Other - Scrap Metal

Isotope	Waste Class A		
	Curies	Percent	
H-3	2.09E+00	5.17E+01	
C-14	8.49E-05	2.10E-03	
Mn-54	3.92E-01	9.70E+00	
Fe-55	2.02E-01	5.00E+00	
C0-57	4.43E-05	1.10E-03	
Co-58	5.54E-02	1.37E+00	
Co-60	8.94E-01	2.21E+01	
Ni-63	1.95E-02	4.83E-01	
Zn-65	1.73E-01	4.28E+00	
Sr-89	3.13E-03	7.75E-02	
Sr-90	2.41E-03	5.97E-02	
Tc-99	8.31E-06	2.06E-04	
Sb-125	4.90E-05	1.21E-03	
Cs-137	1.96E-01	4.85E+00	
Ce-144	1.20E-02	2.97E-01	
Pu-238	5.39E-07	1.33E-05	
Pu-239	1.48E-07	3.66E-06	
Pu-241	2.57E-04	6.36E-03	
Am-241	1.31E-06	3.24E-05	
Cm-242	8.10E-07	2.01E-05	
Cm-243	1.82E-07	4.51E-06	
Cm-244	1.82E-07	4.51E-06	
Totals	4.04E+00	1.00E+02	

Note: Grey fields are where results were not reported in the NRC Regulatory Guide 1.21 Report

2. Solid Waste (Disposition)

Number of Shipments	Mode of Transportation	Destination
13	Hittman Transport Co.	Barnwell Disposal Facility
19	Hittman Transport Co.	Duratek - Bear Creek
11	Hittman Transport Co.	Duratek Radwaste Processing, Inc.

B. Irradiated Fuel Shipments (disposition).

There were no irradiated fuel shipments

C. Changes to the Process Control Program

Submitted with this report is Revision 8 of RW-AA-100, Process Control Program for Radioactive Wastes. All changes made to the document are denoted by "Revision Bars" in the right hand margin. The following is a summary of the changes made in Revision 8:

- Step 4.1.8 was added to allow an Exelon Nuclear plant to store waste from another Exelon Nuclear plant provided formal NRC approval is granted for the transfer of waste. The addition of this procedural step for the transfer and storage of radioactive waste at an Exelon Nuclear plant from another Exelon Nuclear plant to the Process Control Program ensures that if the storage of water from another site is implemented, that a formal NRC review and approval process for the storage of waste from another site will address the site specific effects on the UFSAR and regulatory bases.
- Step 4.2.8 was modified to add "in the pool or loading the processed activated hardware into the Dry Cask storage system." to further clarify the storage of activated hardware. The additional wording has been added to clarify the storage of activated hardware are generic and remain consistent with the UFSAR description of the Spent fuel Pool and Dry Cask Storage Systems.
- Step 4.4.4. was added to state that, "Shipments sent for offsite storage SHALL meet the storage site's waste acceptance criteria." The addition of this procedural step for the transfer and storage of radioactive waste at an Exelon Nuclear plant from another Exelon Nuclear plant to the Process Control Program ensures that if the storage of water from another site is implemented, that a formal NRC review and approval process for the storage of waste from another site will address the site specific effects on the UFSAR and regulatory bases.
- Numerous minor wording and editorial changes were made throughout the document to correct grammatical errors and to improve document readability.

Appendix C Radiological Impact to Man Per ODCM Administrative Control 6.2, an assessment of radiation doses to the likely most exposed MEMBER OF THE PUBLIC from reactor releases and other nearby uranium fuel cycle sources (including doses from primary effluent pathways and direct radiation) for the previous calendar year must be made to show conformance with 40 CFR Part 190, Environmental Radiation Protection Standards for Nuclear Power Operation. For purposes of this calculation the following assumptions were made:

<u>Gaseous</u>

- Nearest member of the public was W sector at 483 meters
- Actual 2012 meteorology and measured gaseous effluent releases were used
- All significant pathways were assumed to be present
- Occupancy factor was considered 22.8% (40 hours/week for 50 weeks).

<u>Liquid</u>

- Doses calculated in the discharge canal at the Route 9 bridge
- Fish, shellfish and shoreline pathways doses calculated

40 CFR Part 190 Compliance

- Dosimetry measurements (minus average of control stations) measured direct radiation for the nearest member of the public. The nearest member of the public for direct radiation is considered an individual that works in the warehouse west of the site. As a worker, the individual is assumed to work 2,000 hours per year at this location.
- Nearest resident was at SE sector at 937 meters.
- The highest calculated dose for gamma air dose and liquid total body were summed for total body dose.
- The highest calculated dose for gamma air dose, child bone and liquid organ were summed for organ dose.
- The limits for Kr-85, I-129, Pu-239 and other alpha-emitting transuranic radionuclides with half-lives greater than one year were not exceeded.

The ODCM does not require total body doses to the population and average doses to individuals in the population from gaseous effluents to a distance of 50 miles from the site to be calculated.

								
			_	Location		% of		
	Applicable	Estimated	Age	Distance	Direction	Applicable		
Effluent	Organ	Dose	Group	(meters)	(toward)	Limit	Limit	Unit
	Gamma -							
Noble Gas	Air Dose	7.11E-03	All	522	SE	7.11E-02	10	mrad
	Beta – Air							
Noble Gas	Dose	5.79E-03	All	405	Е	2.90E-02	20	mrad
	Total Body						•	
Noble Gas	(Gamma)	2.34E-03	All	937	SE	4.68E-02	5	mrem
Noble Gas	Skin (Beta)	3.46E-03	All	937	SE	2.31E-02	15	mrem
lodine,								
Particulate,	Bone	5.60E-01	Child	937	SE	3.73E+00	15	
Carbon-14 &	Duile	5.00E-01	Crina	901	SE	3.73E+00	15	mrem
Tritium	:							
Liquid	Total body	1.55E-06	All	South F	Route 9	5.18E-05	3	mrem
Liquid	Organ	1.55E-06	All	Brid	dge	1.55E-05	10	mrem
Direct Radiation	Total Body	5.55E+00	All	483	W	2.22E+01	25	mrem
Direct Radiation	Total Body	<lld< td=""><td>All</td><td>937</td><td>SE</td><td><lld< td=""><td>25</td><td>mrem</td></lld<></td></lld<>	All	937	SE	<lld< td=""><td>25</td><td>mrem</td></lld<>	25	mrem
		40 CFR	Part 190) Compliar	nce			
		Wa	rehouse	Worker				
Total Dose	Total Body	5.55E+00	All	483	W	2.22E+01	25	mrem
Total Dose	Bone	5.68E+00	All	483	W	2.27E+01	25	mrem
Total Dose	Thyroid	5.55E+00	All	483	W	7.40E+00	75	mrem
		Ne	earest R	esident				
Total Dose	Total Body	7.11E-03	All	937	SE	2.84E-02	25	mrem
Total Dose	Bone	5.67E-01	All	937	SE	2.27E+00	25	mrem
Total Dose	Thyroid	7.11E-03	All	937	SE	9.48E-03	75	mrem

A summary of gaseous and liquid radiation doses to most likely exposed MEMBER OF THE PUBLIC was as follows:

Appendix D Meteorological Data

LIST OF METEOROLOGICAL DATA TABLES

PAGE

Table D – 1	Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the Oyster Creek Generating Station, January – March, 2012	30
Table D – 2	Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the Oyster Creek Generating Station, January – March, 2012	37
Table D – 3	Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the Oyster Creek Generating Station, April – June, 2012	44
Table D – 4	Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the Oyster Creek Generating Station, April – June, 2012	51
Table D – 5	Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the Oyster Creek Generating Station, July – September, 2012	58
Table D – 6	Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the Oyster Creek Generating Station, July – September, 2012	65
Table D – 7	Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the Oyster Creek Generating Station, October – December, 2012	72
Table D – 8	Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the Oyster Creek Generating Station, October – December, 2012	79
Table D – 9	Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the Oyster Creek Generating Station, January – December, 2012	86
Table D – 10	Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the Oyster Creek Generating Station, January – December, 2012	94

Oyster Creek 2012 Annual Radioactive Effluent Release Report

Table D – 1Wind Speed by Direction Measured at 33 Feet for various StabilityClasses for the Oyster Creek Generating Station, January – March, 2012

Oyster Creek Alpha

Period of Record: January - March 2012 Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

	Wind Speed (in mph)						
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	7	2	0	0	0	10
NNE	1	· 7	0	0	0	0	8
NE	1	14	5	0	0	0	20
ENE	1	13	19	0	0	0	33
E	1	9	1	0	0	0	11
ESE	0	17	7	0	0	0	24
SE	1	6	15	0	0	0	22
SSE	0	3	5	2	0	0	10
S	1	2	26	9	0	0	38
SSW	1	2	10	3	0	0	16
SW	1	6	26	5	0	0	38
WSW	0	3	25	4	0	0	32
W	1	11	37	18	0	0	67
WNW	1	11	33	8	0	0	53
NW	1	19	55	20	0	0	95
NNW	0	7	20	5	0	0	32
Variable	0	0	0	0	0	0	0
Total	12	137	286	74	0	0	509

Hours of calm in this stability class: 0 Hours of missing wind measurements in this stability class: 0 Hours of missing stability measurements in all stability classes: 6

Table D – 1Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – March, 2012

Oyster Creek Alpha

Period of Record: January - March 2012 Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

	Wind Speed (in mph)						
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	4	2	0	0	0	7
NNE	0	4	0	0	0	0	4
NE	1	6	0	0	0	0	7
ENE	0	4	5	0	0	0	9
E	1	0	0	0	0	0	1
ESE	0	4	0	0	0	0	4
SE	1	3	2	0	0	0	6
SSE	1	0	2	0	0	0	3
S	0	0	6	1	0	0	7
SSW	1	0	2	2	0	0	5
SW	0	0	2	0	0	0	2
WSW	1	2	3	1	0	0	7
W	1	2	6	3	0	0	12
WNW	0	3	4	0	0	0	7
NW	0	2	7	0	0	0	9
NNW	0	5	1	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	8	39	42	7	0	0	96
	to otob			0			

Hours of calm in this stability class: 0 Hours of missing wind measurements in this stability class: 0 Hours of missing stability measurements in all stability classes: 6

Table D – 1Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – March, 2012

Period of Record: January - March 2012 Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

		Wi	nd Speed	d (in mp)	ר)		
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
Ν	1	1	0	0	0	0	2
NNE	0	0	0	0	0	0	0
NE	0	2	1	0	0	0	3
ENE	0	0	1	0	0	0	1
E	1	1	0	0	0	0	2
ESE	0	4	0	0	0	0	4
SE	0	1	1	0	0	0	2
SSE	0	1	0	0	0	0	1
S	0	1	0	0	0	0	1
SSW	0	0	2	0	0	0	2
SW	0	0	1	0	0	0	1
WSW	0	1	2	0	0	0	3
W	1	2	0	1	0	0	4
WNW	0	2	1	0	0	0	3
NW	0	4	3	0	0	0	7
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	3	21	12	1	0	0	37
Hours of calm in thi Hours of missing win				0 s stabili	ty class	: 0	

Hours of missing wind measurements in this stability class: 0 Hours of missing stability measurements in all stability classes: 6

Table D – 1Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – March, 2012

Period of Record: January - March 2012 Stability Class - Neutral - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind Speed (in mph)

TT ¹	Wind Speed (in mph)						
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	9	14	12	0	0	0	35
NNE	5	19	6	0	0	0	30
NE	7	17	16	0	0	0	40
ENE	7	17	19	0	0	0	43
E	5	14	9	1	0	0	29
ESE	1	8	3	1	0	0	13
SE	1	5	4	0	0	0	10
SSE	5	9	8	0	0	0	22
S	5	5	19	1	0	0	30
SSW	3	12	29	8	0	0	52
SW	4	16	18	0	0	0	38
WSW	5	15	3	1	0	0	24
W	7	17	14	8	0	0	46
WNW	7	20	13	8	0	0	48
NW	3	24	24	3	0	0	54
NNW	9	10	6	0	0	0	25
Variable	0	0	0	0	0	0	0
Total	83	222	203	31	0	0	539

Hours of calm in this stability class: 0 Hours of missing wind measurements in this stability class: 0 Hours of missing stability measurements in all stability classes:

6

Table D – 1Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – March, 2012

Period of Record: January - March 2012 Stability Class - Slightly Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

T7 i en el	Wind Speed (in mph)							
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	8	5	0	0	0	0	13	
NNE	6	6	0	0	0	0	12	
NE	13	13	2	0	0	0	28	
ENE	8	9	7	0	0	0	24	
E	4	1	0	3	0	0	8	
ESE	2	1	4	0	0	0	7	
SE	1	0	2	0	0	0	3	
SSE	4	6	4	0	0	0	14	
S	3	12	12	3	0	0	30	
SSW	3	32	33	4	0	0	72	
SW	7	52	20	5	0	0	84	
WSW	7	51	9	1	0	0	68	
W	9	27	17	1	0	0	54	
WNW	12	40	14	2	0	0	68	
NW	16	31	4	0	0	0	51	
NNW	2	12	4	0	0	0	18	
Variable	0	0	0	0	0	0	0	
Total	105	298	132	19	0	0	554	

Wind Speed (in mph)

Table D – 1Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – March, 2012

Period of Record: January - March 2012 Stability Class - Moderately Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind		1 10	1)				
Direction	1-3	4-7	8-12	13-18	19 - 24	> 24	Total
N	2	1	0	0	0	0	3
NNE	1	0	0	0	0	0	1
NE	1	2	0	0	0	0	3
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	2	2	0	0	0	0	4
S	2	0	0	0	0	0	2
SSW	4	5	0	0	0	0	9
SW	10	14	0	0	0	0	24
WSW	6	32	0	0	0	0	38
W	9	17	1	0	0	0	27
WNW	15	11	0	0	0	0	26
NW	5	16	0	0	0	0	21
NNW	4	2	0	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	65	102	1	0	0	0	168

Wind Speed (in mph)

Table D – 1Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – March, 2012

Period of Record: January - March 2012 Stability Class - Extremely Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

17.1 ··· -1		wind Speed (in mpn)									
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total				
N	3	0	0	0	0	0	3				
NNE	1	0	0	0	0	0	1				
NE	2	0	0	0	0	0	2				
ENE	1	0	0	0	0	0	1				
E	1	1	0	0	0	0	2				
ESE	0	0	0	0	0	0	0				
SE	1	0	0	0	0	0	1				
SSE	0	0	0	0	0	0	0				
S	2	1	0	0	0	0	3				
SSW	8	2	0	0	0	0	10				
SW	8	6	0	0	0	0	14				
WSW	53	34	0	0	0	0	87				
W	58	14	0	0	0	0	72				
WNW	35	8	0	0	0	0	43				
NW	23	6	0	0	0	0	29				
NNW	5	1	0	0	0	0	6				
Variable	0	0	0	0	0	0	0				
Total	201	73	0	0	0	0	274				

Wind Speed (in mph)

Hours of calm in this stability class: 1 Hours of missing wind measurements in this stability class: 0 Hours of missing stability measurements in all stability classes:

6

Table D – 2Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – March, 2012

Period of Record: January - March 2012 Stability Class - Extremely Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind Speed (in mph)

ti7 i en el	Wind Speed (in mph)						
Wind Direction	1-3 	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	2	0	0	0	2
ENE	0	0	1	3	0	0	4
Е	0	0	2	0	1	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	3	1	0	0	4
SSE	0	0	1	3	0	0	4
S	0	0	0	0	1	0	1
SSW	0	0	1	1	1	0	3
SW	0	0	0	2	2	0	4
WSW	0	0	2	8	4	0	14
W	0	0	0	2	4	1	7
WNW	0	1	1	6	3	0	11
NW	0	0	3	13	8	2	26
NNW	0	0	2	9	3	7	21
Variable	0	0	0	0	0	0	0
Total	0	1	18	48	27	10	104

Table D – 2Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – March, 2012

Period of Record: January - March 2012 Stability Class - Moderately Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind		Wi	nd Speed	d (in mph	(ב		
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	2	0	0	0	2
NNE	0	0	0	0	0	0	0
NE	0	0	3	0	0	0	3
ENE	0	0	1	3	0	0	4
E	0	0	2	0	0	0	2
ESE	0	0	1	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	0	2	1	0	0	3
S	0	0	3	4	0	0	7
SSW	0	1	3	9	2	2	17
SW	0	0	0	2	0	1	3
WSW	0	0	2	2	0	0	4
W	0	0	2	7	4	2	15
WNW	0	0	3	8	3	5	19
NW	0	0	8	14	1	3	26
NNW	0	0	3	2	6	2	13
Variable	0	0	0	0	0	0	0
Total	0	1	35	52	16	15	119
Hours of calm in t Hours of missing w Hours of missing s	ind meas	urements	in this				6

Wind Speed (in mph)

Table D - 2Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – March, 2012

Period of Record: January - March 2012 Stability Class - Slightly Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

til a d		Wind Speed (in mph)								
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total			
N	0	1	0	1	0	0	2			
NNE	0	0	0	0	0	0	0			
NE	0	0	9	1	0	0	10			
ENE	0	0	4	4	0	0	8			
E	0	1	2	3	1	0	7			
ESE	0	0	1	0	0	0	1			
SE	0	2	4	1	0	0	7			
SSE	0	0	3	0	1	0	4			
S	0	0	3	5	0	0	8			
SSW	0	0	1	11	1	0	13			
SW	0	0	0	1	1	2	4			
WSW	0	0	0	6	3	0	9			
W	0	0	2	11	6	4	23			
WNW	0	0	4	10	6	7	27			
NW	0	2	7	6	5	7	27			
NNW	0	2	2	2	2	2	10			
Variable	0	0	0	0	0	0	0			
Total	0	8	42	62	26	22	160			
of calm in th	nis stab	ility cl	ass:	0						

Table D – 2Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – March, 2012

Period of Record: January - March 2012 Stability Class - Neutral - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind		Wind Speed (in mph)						
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	0	4	. 18	19	3	0	44	
NNE	1	6	13	8	2	0	30	
NE	0	6	23	33	5	1	68	
ENE	2	7	5	30	13	4	61	
E	0	3	8	1	11	0	23	
ESE	1	10	11	5	3	0	30	
SE	0	7	8	7	5	1	28	
SSE	1	3	9	6	2	0	21	
S	1	9	4	6	4	0	24	
SSW	0	6	3	25	14	10	58	
SW	2	2	0	24	22	5	55	
WSW	0	2	11	20	13	4	50	
W	3	7	6	26	14	10	66	
WNW	1	4	6	17	20	24	72	
NW	2	4	11	25	19	10	71	
NNW	0	0	11	12	21	8	52	
Variable	0	0	0	0	0	0	0	
Total	14	80	147	264	171	77	753	

Table D – 2Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – March, 2012

Period of Record: January - March 2012 Stability Class - Slightly Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

المراجع والمراجع		Wi	nd Speed	l (in mpl	1)		
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	1	8	2	4	0	16
NNE	0	4	6	2	0	0	12
NE	2	6	7	7	0	0	22
ENE	0	1	6	7	1	1	16
E	0	3	5	7	3	8	26
ESE	1	13	3	3	3	1	24
SE	1	8	4	5	1	0	19
SSE	1	2 .	3	4	2	0	12
S	1	1	5	6	10	1	24
SSW	1	1	5	11	30	9	57
SW	1	5	2	18	48	13	87
WSW	1	3	3	14	43	6	70
W	2	4	4	21	36	5	72
WNW	1	0	7	17	21	2	48
NW	1	1	5	27	20	0	54
NNW	2	2	6	25	27	0	62
Variable	0	0	0	0	0	0	0
Total	16	55	79	176	249	46	621

Table D – 2Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – March, 2012

Period of Record: January - March 2012 Stability Class - Moderately Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind		Wind Speed (in mph)							
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total		
N	1	0	2	13	3	0	19		
NNE	0	1	3	1	2	0	7		
NE	0	1	1	2	0	0	4		
ENE	0	0	1	0	0	0	1		
E	1	0	1	2	0	0	4		
ESE	0	0	0	0	0	0	0		
SE	1	1	2	0	0	0	4		
SSE	0	2	1	1	0	0	4		
S	0	0	3	8	1	0	12		
SSW	1	1	1	8	5	0	16		
SW	1	2	2	6	8	4	23		
WSW	0	1	1	5	9	12	28		
W	0	0	5	10	13	1	29		
WNW	0	3	4	12	11	3	33		
NW	0	0	8	10	21	3	42		
NNW	0	1	3	20	11	3	38		
Variable	0	0	0	0	0	0	0		
Total	5	13	38	98	84	26	264		

Table D – 2Wind Speed by Direction Measured at 380 Feet for various Stability Classes for theOyster Creek Generating Station, January – March, 2012

Oyster Creek Alpha

Period of Record: January - March 2012 Stability Class - Extremely Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind Speed (in mph) Wind Direction 1-3 4-7 8-12 13-18 19-24 > 24 Total --------____ ____ ____ ____ ____ ____ ____ Ν NNE NE ENE Е ESE SE SSE S SSW SW WSW W WNW NW NNW Variable Total .

Table D - 3Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

		W.	ind Speed	l (in mp)	ı)		
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	10	2	0	0	0	12
NNE	1	8	6	0	0	0	15
NE	0	14	27	0	0	0	41
ENE	0	24	43	0	0	0	67
E	3	19	16	0	0	0	38
ESE	2	19	13	0	0	0	34
SE	2	22	47	0	0	0	71
SSE	1	10	29	2	0	0	42
S	2	6	38	.21	2	0	69
SSW	0	8	5	1	0	0	14
SW	0	9	14	1	0	0	24
WSW	1	17	15	1	0	0	34
W	1	18	26	13	2	0	60
WNW	1	9	64	11	0	0	85
NW	1	20	43	5	0	0	69
NNW	0	14	18	3	0	0	35
Variable	0	0	0	0	0	0	0
Total	15	227	406	58	4	0	710
Hours of calm in t Hours of missing w				0 stabili	ty class.	: 4	

Hours of missing wind measurements in this stability class: 4 Hours of missing stability measurements in all stability classes: 78

Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the Table D – 3 Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

	Wind Speed (in mph)									
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total			
N	0	2	0	0	0	0	2			
NNE	0	1	0	0	0	0	1			
NE	1	8	1	0	0	0	10			
ENE	0	5	3	0	0	0	8			
E	0	3	1	0	0	0	4			
ESE	0	1	1	0	0	0	2			
SE	0	6	1	0	0	0	7			
SSE	0	0	5	2	0	0	7			
S	1	1	5	0	0	0	7			
SSW	3	3	0	1	0	0	7			
SW	0	2	1	0	0	0	3			
WSW	0	3	1	0	0	0	4			
W	0	5	0	1	0	0	6			
WNW	0	10	4	0	0	0	14			
NW	0	3	2	0	0	0	5			
NNW	0	2	0	0	0	0	2			
Variable	0	0	0	0	0	0	0			
Total	5	55	25	4	0	0	89			
Hours of calm in t Hours of missing w Hours of missing s	ind meas	urements	s in this	0 s stabili n all sta	ity class ability c	: 0 lasses:	78			

Table D – 3Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind	Wind Speed (in mph)							
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	0	2	0	0	0	0	2	
NNE	0	0	0	0	0	0	0	
NE	2	3	0	0	0	0	5	
ENE	0	6	3	0	0	0	9	
E	0	2	1	0	0	0	3	
ESE	0	0	0	0	0	0	0	
SE	0	4	2	0	0	0	6	
SSE	0	5	1	0	0	0	6	
S	0	2	3	0	0	0	5	
SSW	1	2	0	0	0	0	3	
SW	0	2	3	0	0	0	5	
WSW	0	0	0	0	0	0	0	
W	1	0	0	0	0	0	1	
WNW	1	2	2	0	0	0	5	
NW	2	0	2	0	0	0	4	
NNW	0	0	0	0	0	0	0	
Variable	0	0	0	0	0	0	0	
Total	7	30	17	0	0	0	54	

Table D – 3Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Neutral - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

tild og el		W	ind Speed	ł (in mpł	ר)		
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	11	4	0	0	0	16
NNE	1	14	7	0	0	0	22
NE	7	30	4	0	0	0	41
ENE	2	20	3	0	0	0	25
E	6	15	5	0	0	0	26
ESE	1	18	5	0	0	0	24
SE	5	15	9	1	0	0	30
SSE	6	21	30	2	0	0	59
S	4	14	22	2	0	0	42
SSW	4	20	19	1	0	0	44
SW	4	13	8	0	0	0	25
WSW	3	12	1	0	0	0	16
W	4	6	3	0	0	0	13
WNW	1	14	5	0	0	0	20
NW	2	17	9	0	0	0	28
NNW	2	10	2	0	0	0	14
Variable	0	0	0	0	0	0	0
Total	53	250	136	6	0	0	445

Table D – 3Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Slightly Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

	Wind Speed (in mph)						
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	4	2	0	0	0	7
NNE	3	2	3	1	0	0	9
NE	7	12	2	0	0	0	21
ENE	2	11	1	0	0	0	14
E	1	8	0	0	0	0	9
ESE	2	2	2	0	0	0	6
SE	3	3	2	0	0	0	8
SSE	9	4	7	0	0	0	20
S	7	11	2	1	0	0	21
SSW	14	36	2	0	0	0	52
SW	10	49	1	0	0	0	60
WSW	10	40	2	0	0	0	52
W	12	21	2	0	0	0	35
WNW	4	26	3	1	0	0	34
NW	5	21	5	0	0	0	31
NNW	3	7	4	0	0	0	14
Variable	0	0	0	0	0	0	0
Total	93	257	40	3	0	0	393

Table D – 3Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Moderately Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

المراجع والمراجع		Wi	nd Speed	l (in mpl	1)		
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	3	0	0	0	0	4
NNE	0	1	0	0	0	0	1
NE	3	1	0	0	0	0	4
ENE	1	2	0	0	0	0	3
E	0	0	0	0	0	0	0
ESE	1	0	1	0	0	0	2
SE	0	0	0	0	0	0	0
SSE	2	0	0	0	0	0	2
S	3	1	0	0	0	0	4
SSW	2	3	0	0	0	0	5
SW	8	7	0	0	0	0	15
WSW	12	35	0	0	0	0	47
W	19	8	1	0	0	0	28
WNW	6	17	0	0	0	0	23
NW	4	11	0	0	0	0	15
NNW	3	3	0	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	65	92	2	0	0	0	159
of colm in t	bia atab	ility al	2001	0			

Table D – 3Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Extremely Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

T-I	Wind Speed (in mph)							
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	4	0	0	0	0	0	4	
NNE	0	0	0	0	0	0	0	
NE	2	0	0	0	0	0	2	
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	1	0	0	0	0	0	1	
SSE	0	0	0	0	0	0	0	
S	1	0	0	0	0	0	1	
SSW	3	0	0	0	0	0	3	
SW	7	3	0	0	0	0	10	
WSW	43	25	0	0	0	0	68	
W	63	11	0	0	0	0	74	
WNW	22	5	0	0	0	0	27	
NW	23	18	0	0	0	0	41	
NNW	12	6	0	0	0	0	18	
Variable	0	0	0	0	0	0	0	
Total	181	68	0	0	0	0	249	

Wind Speed (in mph)

Table D – 4Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Extremely Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind	Wind Speed (in mph)						
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
Ν	0	0	1	3	0	0	4
NNE	0	0	5	0	0	0	5
NE	0	0	3	8	4	0	15
ENE	0	0	7	18	2	0	27
E	0	0	11	6	0	0	17
ESE	0	0	6	0	0	0	6
SE	0	0	10	3	0	0	13
SSE	0	0	7	8	0	0	15
S	0	1	3	5	3	1	13
SSW	0	1	3	2	2	0	8
SW	0	2	1	2	1	0	6
WSW	0	3	1	6	5	0	15
Ŵ	0	1	5	9	2	2	19
WNW	0	0	3	20	12	9	44
NW	0	0	4	14	18	2	38
NNW	0	0	6	9	6	0	21
Variable	0	0	0	0	0	0	0
Total	0	8	76	113	55	14	266

Table D – 4Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Moderately Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

		Wind Speed (in mph)						
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	0	2	4	0	0	0	6	
NNE	0	1	1	0	0	0	2	
NE	0	0	2	5	0	0	7	
ENE	0	2	4	3	1	0	10	
E	0	3	5	0	1	0	9	
ESE	0	2	2	2	0	0	6	
SE	0	2	7	1	0	0	10	
SSE	0	0	7	6	0	0	13	
S	0	1	1	8	1	1	12	
SSW	0	0	1	2	4	4	11	
SW	0	1	1	0	1	0	3	
WSW	0	0	1	5	2	0	8	
W	0	0	7	3	2	2	14	
WNW	0	1	3	7	3	3	17	
NW	0	2	3	5	8	1	19	
NNW	0	2	2	6	3	1	14	
Variable	0	0	0	0	0	0	0	
Total	0	19	51	53	26	12	161	
of calm in t				0 stabil:	ty class	• 1		

Hours of missing wind measurements in this stability class: 1 Hours of missing stability measurements in all stability classes: 78

Hours

Table D - 4Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Slightly Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind	Wind Speed (in mph)								
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total		
N	0	0	2	1	0	0	3		
NNE	0	0	2	0	0	0	2		
NE	0	1	4	3	0	0	8		
ENE	0	1	7	5	0	0	13		
E	0	5	2	3	0	0	10		
ESE	0	0	2	0	0	0	2		
SE	0	1	6	7	0	0	14		
SSE	0	1	7	2	0	0	10		
S	0	0	6	8	1	0	15		
SSW	0	1	1	7	3	0	12		
SW	1	0	2	0	2	0	5		
WSW	0	2	1	1	0	0	4		
W	0	1	7	0	2	0	10		
WNW	0	2	1	8	. 1	1	13		
NW	0	2	4	6	5	1	18		
NNW	0	1	3	1	1	0	6		
Variable	0	0	0	0	0	0	0		
Total	1	18	57	52	15	2	145		

Table D – 4Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Neutral - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

77 - 3	Wind Speed (in mph)							
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	0	1	6	9	4	0	20	
NNE	0	1	14	11	0	0	26	
NE	0	2	24	20	3	1	50	
ENE	0	5	33	41	4	0	83	
Έ	1	7	15	10	3	0	36	
ESE	0	12	12	9	1	1	35	
SE	2	21	13	16	1	1	54	
SSE	3	12	24	30	21	1	91	
S	3	5	21	30	6	1	66	
SSW	1	5	12	33	16	2	69	
SW	0	5	11	21	9	0	46	
WSW	0	3	8	16	2	1	30	
W	2	3	8	8	4	1	26	
WNW	1	4	9	12	3	5	34	
NW	1	3	9	30	13	1	57	
NNW	1	0	7	7	5	1	21	
Variable	0	0	0	0	0	0	0	
Total	15	89	226	303	95	16	744	

Table D – 4Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Slightly Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind		Wind Speed (in mph)							
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total		
N	0	0	7	9	1	0	17		
NNE	0	1	3	5	0	0	9		
NE	1	0	0	0	0	1	2		
ENE	0	0	4	5	0	1	10		
E	0	3	4	9	0	0	16		
ESE	1	5	3	0	0	0	9		
SE	1	3	0	0	0	0	4		
SSE	0	10	4	2	0	0	16		
S	0	5	3	1	0	0	9		
SSW	0	6	5	17	3	0	31		
SW	2	5	13	37	16	1	74		
WSW	2	1	4	30	15	1	53		
W	3	2	6	15	12	0	38		
WNW	0	1	6	12	6	1	26		
NW	0	2	3	13	16	3	37		
NN₩	0	2	3	2	18	1	26		
Variable	0	0	0	0	0	0	0		
Total	10	46	68	157	87	9	377		

Oyster Creek 2012 Annual Radioactive Effluent Release Report

Table D – 4Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Oyster Creek Alpha

Period of Record: April - June 2012 Stability Class - Moderately Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

TT ¹]	Wind Speed (in mph)							
Wind Direction	1-3	4-7 - -	8-12	13-18	19-24	> 24	Total	
N	0	0	3	12	7	0	22	
NNE	0	0	3	3	0	0	6	
NE	0	1	2	5	0	0	8	
ENE	0	2	4	0	1	0	7	
E	1	3	0	0	0	0	4	
ESE	0	2	0	0	0	0	2	
SE	0	3	0	0	0	0	3	
SSE	0	0	2	0	0	0	2	
S	0	0	1	1	0	0	2	
SSW	0	1	0	3	0	0	4	
SW	2	2	2	7	7	1	21	
WSW	1	0	1	9	13	8	32	
W	0	1	2	10	16	6	35	
WNW	0	2	5	8	12	3	30	
NW	0	2	1	7	8	11	29	
NNW	0	2	3	7	12	4	28	
Variable	0	0	0	0	0	0	0	
Total	4	21	29	72	76	33	235	

Hours of calm in this stability class: 0 Hours of missing wind measurements in this stability class: 0 Hours of missing stability measurements in all stability classes: 78

.

Table D – 4Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, April – June, 2012

Period of Record: April - June 2012 Stability Class - Extremely Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind	Wind Speed (in mph)							
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	0	1	3	6	0	0	10	
NNE	0	2	2	2	2	0	8	
NE	1	3	11	4	0	0	19	
ENE	0	1	0	3	0	0	4	
Ε	0	1	0	0	0	0	1	
ESE	0	0	1	0	0	0	1	
SE	0	5	2	1	0	0	8	
SSE	1	3	1	1	0	0	6	
S	0	2	2	0	0	0	4	
SSW	0	5	1	0	0	0	6	
SW	0	3	2	0	0	0	5	
WSW	0	0	5	1	2	5	13	
W	0	1	3	2	9	2	17	
WNW	0	1	2	7	13	4	27	
NW	0	2	1	7	16	2	28	
NNW	0	2	1	6	5	0	14	
Variable	0	0	0	0	0	0	0	
Total	2	32	37	40	47	13	171	

Table D – 5Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

	wind Speed (in mpn)								
. Wind Directior	n 1-3	4-7	8-12	13-18	19-24	> 24	Total		
N	1	4	1	0	0	0	6		
NNE	1	9	0	0	0	0	10		
NE	1	4	4	0	0	0	9		
ENE	1	26	9	0	0	0	36		
Ε	3	13	8	0	0	0	24		
ESE	0	19	7	0	0	0	26		
SE	0	28	39	0	0	0	67		
SSE	2	7	15	0	0	. 0	24		
S	1	14	35	9	0	0	59		
SSW	1	5	23	5	0	0	34		
SW	0	20	33	0	0	0.	53		
WSW	1	16	2	0	0	0	19		
W	1	25	13	0	0	0	39		
WNW	0	22	7	0	0	· 0	29		
NW	0	27	17	0	0	0	44		
NNW	0	5	8	0	0	0	13		
Variable	0	0	0	0	0	0	0		
Total	13	244	221	14	0	0	492		
of calm in of missing				0 s stabili	ity class	: 0			

Wind Speed (in mph)

Table D - 5Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind Speed (in mph)							
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	2	0	0	0	0	4
NNE	2	2	0	0	0	0	4
NE	2	4	3	0	0	0	9
ENE	0	4	6	0	0	0	10
E	0	7	0	0	0	0	7
ESE	0	3	0	0	0	0	3
SE	0	8	1	0	0	0	9
SSE	0	8	2	0	0	0	10
S	0	3	5	1	1	0	10
SSW	0	2	4	0	0	0	6
SW	0	3	6	0	0	0	9
WSW	2	7	1	0	0	0	10
W	0	2	1	0	0	0	3
WNW	4	4	1	0	0	0	9
NW	3	12	2	0	0	0	17
NNW	0	5	3	0	0	0	8
Variable	0	0	0	0	0	0	0
Total	15	76	35	1	1	0	128

Table D – 5Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind	Wind Speed (in mph)							
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	1	2	0	0	0	0	3	
NNE	0	0	0	0	0	0	0	
NE	1	0	0	0	0	0	1	
ENE	0	4	0	0	0	0	4	
Ε	0	2	2	0	0	0	4	
ESE	0	1	0	0	0	0	1	
SE	1	5	0	0	0	0	6	
SSE	0	2	4	0	0	0	6	
S	0	3	3	2	1	0	9	
SSW	0	0	1	0	0	0	1	
SW	0	0	2	0	0	0	2	
WSW	1	1	0	0	0	0	2	
W	0	1	0	0	0	0	1	
WNW	0	4	0	0	0	0	4	
NW	0	4	0	0	0	0	4	
NNW	0	1	0	0	0	0	1	
Variable	0	0	0	0	0	0	0	
Total	4	30	12	2	1	0	49	

Table D - 5Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Neutral - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind Speed (in mph)

	Wind Speed (in mph)								
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total		
N	2	2	0	0	0	0	4		
NNE	0	1	0	0	0	0	1		
NE	1	11	6	0	0	0	18		
ENE	0	7	3	1	0	0	11		
E	1	8	6	0	0	0	15		
ESE	2	5	3	0	0	0	10		
SE	1	11	1	0	0	0	13		
SSE	2	13	2	2	0	0	19		
S	1	12	7	5	1	0	26		
SSW	6	11	9	0	0	. 0	26		
SW	2	7	4	0	0	0	13		
WSW	1	10	1	0	0	0	12		
W	3	5	1	0	0	0	9		
WNW	2	13	0	0	0	0	15		
NW	2	9	2	0	0	0	13		
NNW	5	10	5	0	0	0	20		
Variable	0	0	0	0	0	0	0		
Total	31	135	50	8	1	0	225		

Table D - 5Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Slightly Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

17 i er el	Wind Speed (in mph)								
Wind Direction	1-3	4-7 -	8-12	13-18	19-24 	> 24	Total		
N	4	3	0	0	0	0	7		
NNE	2	2	0	0	0	0	4		
NE	2	8	9	0	0	0	19		
ENE	3	7	6	2	0	0	18		
Ε	5	20	9	0	0	0	34		
ESE	2	24	0	0	0	0	26		
SE	6	13	0	0	0	0	19		
SSE	7	20	4	3	0	0	34		
S	10	51	22	3	3	0	89		
SSW	17	45	18	0	0	0	80		
SW	15	56	1	0	0	0	72		
WSW	19	39	2	0	0	0	60		
W	14	15	4	0	0	0	33		
WNW	11	19	0	0	0	0	30		
NW	10	17	2	0	0	0	29		
NNW	5	9	1	0	0	0	15		
Variable	0	0	0	0	0	0	0		
Total	132	348	78	8	3	0	569		

Wind Speed (in mph)

Table D – 5Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Moderately Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind Speed (in mph)

Wind	Wind Speed (in mph)								
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total		
N	5	0	0	0	0	0	5		
NNE	3	1	0	0	0	0	4		
NE	0	0	2	0	0	0	2		
ENE	2	2	3	0	0	0	7		
Ε	3	2	0	0	0	0	5		
ESE	0	0	0	0	0	0	0		
SE	5	0	0	0	0	0	5		
SSE	7	2	1	0	0	0	10		
S	13	4	0	0	0	0	17		
SSW	11	2	1	0	0	0	14		
SW	10	9	0	0	0	0	19		
WSW	29	20	0	0	0	0	49		
Ŵ	28	3	0	0	0	0	31		
WNW	13	8	0	0	0	0	21		
NW	8	11	0	0	0	0	19		
NNW	1	1	0	0	0	0	2		
Variable	0	0	0	0	0	0	0		
Total	138	65	7	0	0	0	210		

Table D - 5Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Extremely Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind Speed (in mph)

7.7	Wind Speed (in mph)							
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	3	0	0	0	0	0	3	
NNE	2	0	0	0	0	0	2	
NE	0	0	0	0	0	0	0	
ENE	0	0	1	0	0	0	1	
E	0	0	0	0	0	0	0	
ESE	0	0	0	0	0	0	0	
SE	0	0	0	0	0	0	0	
SSE	1	0	0	0	0	0	1	
S	5	0	0	0	0	0	5	
SSW	11	0	0	0	0	0	11	
SW	34	5	0	0	0	0	39	
WSW	117	10	0	0	0	0	127	
W	144	8	0	0	0	0	152	
WNW	52	3	0	0	0	0	55	
NW	32	9	0	0	0	0	41	
NNW	10	5	0	0	0	0	15	
Variable	0	0	0	0	0	0	0	
Total	411	40	1	0	0	0	452	

Table D – 6Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Extremely Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

73 (1 1	Wind Speed (in mph)								
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total		
N	0	0	0	0	0	0	0		
NNE	0	0	0	0	0	0	0		
NE	0	0	1	0	0	0	1		
ENE	0	0	6	1	0	0	7		
E	0	0	1	2	0	0	3		
ESE	0	0	1	0	0	0	1		
SE	0	0	5	0	0	0	5		
SSE	0	0	1	0	0	0	1		
S	0	0	0	0	0	0	0		
SSW	0	0	0	0	0	0	0		
SW	0	0	0	3	0	0	3		
WSW	0	0	3	1	0	0	4		
W	0	0	0	2	0	0	2		
WNW	0	0	3	0	0	0	3		
NW	0	0	0	2	0	0	2		
NNW	0	0	0	5	0	0	5		
Variable	0	0	0	0	0	0	0		
Total	0	0	21	16	0	0	37		
of calm in t	his stab	ility cl	lass:	0					

Table D - 6Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Moderately Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

TT days al	Wind Speed (in mph)							
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	0	0	4	0	0	0	4	
NNE	0	0	1	0	0	0	1	
NE	0	1	2	0	0	0	3	
ENE	0	0	4	1	0	0	5	
E	0	1	4	0	0	0	5	
ESE	0	4	7	1	0	0	12	
SE	0	2	23	1	0	0	26	
SSE	0	2	8	4	0	0	14	
S	0	3	4	5	2	0	14	
SSW	0	1	2	15	6	1	25	
SW	0	3	4	15	0	0	22	
WSW	0	1	6	3	0	0	10	
W	0	3	10	5	2	0	20	
WNW	0	0	7	2	0	0	9	
NW	0	1	5	4	0	0	10	
NNW	0	1	2	11	0	0	14	
Variable	0	0	0	0	0	0	0	
Total	0	23	93	67	10	1	194	

Table D - 6Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Slightly Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind	Wind Speed (in mph)							
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	0	1	0	1	0	0	2	
NNE	0	4	2	0	0	0	6	
NE	0	1	3	0	0	0	4	
ENE	1	4	3	6	0	0	14	
E	1	4	6	2	0	0	13	
ESE	0	1	5	0	0	0	6	
SE	0	5	13	1	0	0	19	
SSE	0	0	17	3	0	0	20	
S	2	1	7	6	0	0	16	
SSW	0	3	8	13	3	2	29	
SW	0	1	1	8	0	0	10	
WSW	0	4	6	4	0	0	14	
W	0	0	6	2	1	0	9	
WNW	0	2	6	5	0	0	13	
NW	0	8	11	4	0	0	23	
NNW	0	1	3	4	2	0	10	
Variable	0	0	0	0	0	0	0	
Total	4	40	97	59	6	2	208	

Table D – 6Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Neutral - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind		Wind Speed (in mph)						
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	0	6	3	5	1	0	15	
NNE	4	2	3	ĺ	0	0	10	
NE	2	6	8	5	0	0	21	
ENE	0	7	9	13	2	2	33	
E	1	6	12	15	2	0	36	
ESE	1	5	27	11	6	0	50	
SE	0	12	22	5	0	0	39	
SSE	1	12	23	8	0	0	44	
S	1	12	28	10	6	14	71	
SSW	1	5	11	36	14	1	68	
SW	0	3	8	23	5	0	39	
WSW	1	6	9	11	1	0	28	
W	1	4	6	12	0	0	23	
WNW	0	2	12	9	1	0	24	
NW	2	8	16	10	1	0	37	
NNW	1	4	15	8	3	0	31	
Variable	0	0	0	0	0	0	0	
Total	16	100	212	182	42	17	569	

Table D ~ 6Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Slightly Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Mind	Wind Speed (in mph) Wind							
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	0	4	2	2	0	0	8	
NNE	1	1	2	0	0	0	4	
NE	1	1	5	2	0	1	10	
ENE	1	0	1	3	5	13	23	
Ε	1	1	7	5	3	2	19	
ESE	0	4	17	4	1	0	26	
SE	0	4	6	1	0	0	11	
SSE	0	6	16	3	1	0	26	
S	2	3	7	18	1	0	31	
SSW	2	3	19	57	12	0	93	
SW	2	3	14	62	15	0	96	
WSW	1	6	7	21	14	0	49	
W	1	3	8	22	4	2	40	
WNW	0	3	6	13	9	1	32	
NW	0	3	11	5	3	0	22	
NNW	0	1	5	17	12	0	35	
Variable	0	0	0	0	0	0	0	
Total	12	46	133	235	80	19	525	

Table D – 6Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Moderately Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

TT ¹ = 1		W	Wind Speed (in mph)						
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total		
N	0	6	5	4	5	1	21		
NNE	2	2	2	1	0	0	7		
NE	0	3	6	1	0	0	10		
ENE	1	2	5	1	0	0	9		
E	0	1	3	0	0	0	4		
ESE	1	5	2	0	0	0	8		
SE	1	3	3	0	0	0	7		
SSE	0	6	1	1	0	0	8		
S	1	1	11	3	0	0	16		
SSW	4	2	16	8	0	0	30		
SW	3	0	11	16	15	5	50		
WSW	0	2	8	9	12	2	33		
W	0	4	6	14	2	1	27		
WNW	0	7	7	9	7	0	30		
NW	1	3	11	9	5	1	30		
NNW	0	1	3	7	8	0	19		
Variable	0	0	0	0	0	0	0		
Total	14	48	100	83	54	10	309		
of calm in th	ie etab	ility cl	acc •	0					

Table D – 6Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, July – September, 2012

Period of Record: July - September 2012 Stability Class - Extremely Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind	Wind Speed (in mph)								
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total		
N	0	4	13	7	7	0	31		
NNE	0	2	0	4	1	0	7		
NE	0	3	6	3	0	0	12		
ENE	0	2	5	0	0	0	7		
E	0	1	4	0	0	0	5		
ESE	0	1	1	0	0	0	2		
SE	0	1	3	0	0	0	4		
SSE	0	2	3	0	0	0	5		
S	0	1	5	3	0	0	9		
SSW	0	0	10	2	0	0	12		
SW	0	5	8	5	2	2	22		
WSW	1	7	8	8	7	0	31		
W	0	7	12	8	1	1	29		
WNW	0	8	10	9	3	0	30		
NW	0	4	11	14	1	2	32		
NNW	1	4	8	15	5	1	34		
Variable	0	0	0	0	0	0	0		
Total	2	52	107	78	27	6	272		

Table D – 7Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Di dan di	wind Speed (in mpn)									
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total			
N	0	2	3	0	0	0	5			
NNE	0	11	9	0	0	0	20			
NE	0	12	10	0	0	0	22			
ENE	1	4	3	0	0	0	8			
E	0	5	1	0	0	0	6			
ESE	0	4	2	0	0	0	6			
SE	0	1	6	0	0	0	7			
SSE	0	0	2	0	0	0	2			
S	0	1	11	0	0	0	12			
SSW	0	2	6	1	0	0	9			
SW	0	1	2	2	0	0	5			
WSW	0	6	17	0	0	0	23			
W	0	2	16	0	0	0	18			
WNW	0	11	27	3	0	0	41			
NW	0	5	28	1	0	0	34			
NNW	0	1	2	0	0	0	3			
Variable	0	0	0	0	0	0	0			
Total	1	68	145	7	0	0	221			

Wind Speed (in mph)

Table D – 7Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

1 2 (Wi					
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	6	0	0	0	0	8
NNE	0	5	2	0	0	0	7
NE	0	2	2	0	0	0	4
ENE	0	4	2	0	0	0	6
E	0	5	0	0	0	0	5
ESE	0	1	0	0	0	0	1
SE	0	1	1	0	0	0	2
SSE	0	1	5	0	0	0	6
S	0	2	2	0	0	0	4
SSW	0	0	3	0	0	0	3
SW	0	1	1	0	0	0	2
WSW	0	0	7	0	0	0	7
W	0	5	6	0	0	0	11
WNW	0	4	8	2	0	0	14
NW	1	1	6	1	0	0	9
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	3	39	45	3	0	0	90

Table D – 7Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

til é en el	Wind Speed (in mph)							
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	1	3	0	0	0	0	4	
NNE	0	3	0	0	0	0	3	
NE	0	2	1	0	0	0	3	
ENE	0	3	1	0	0	0	4	
E	0	1	0	0	0	0	1	
ESE	0	0	1	0	0	0	1	
SE	0	0	1	0	0	0	1	
SSE	0	1	0	0	0	0	1	
S	0	1	1	0	0	0	2	
SSW	2	1	1	0	0	0	4	
SW	1	0	0	0	0	0	1	
WSW	1	0	1	0	0	0	2	
W	0	1	0	0	0	0	1	
WNW	0	2	4	3	0	0	9	
NW	0	1	1	1	0	0	3	
NNW	0	6	0	0	0	0	6	
Variable	0	0	0	0	0	0	0	
Total	5	25	12	4	0	0	46	

Table D - 7Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Neutral - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

tel é se sel	Wind Speed (in mph)									
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total			
N	8	16	4	5	0	0	33			
NNE	4	33	16	2	2	0	57			
NE	1	20	12	0	1	0	34			
ENE	1	17	2	0	0	0	20			
E	1	9	1	0	0	0	11			
ESE	1	6	1	0	0	0	8			
SE	4	1	2	0	0	0	7			
SSE	0	1	2	0	0	0	3			
S	5	10	12	3	0	0	30			
SSW	1	7	13	0	0	0	21			
SW	0	4	0	0	0	0	4			
WSW	4	18	7	0	0	0	29			
W	5	11	10	1	0	0	27			
WNW	3	17	16	13	0	0	49			
NW	4	27	14	0	0	0	45			
NNW	11	27	7	0	0	0	45			
Variable	0	0	0	0	0	0	0			
Total	53	224	119	24	3	0	423			

Table D – 7Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Slightly Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind	Wind Speed (in mph)								
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total		
N	4	11	2	1	0	0	18		
NNE	9	15	5	6	5	0	40		
NE	13	19	12	6	0	0	50		
ENE	10	16	3	5	1	0	35		
E	9	15	1	2	0	0	27		
ESE	1	10	4	2	0	0	17		
SE	5	9	7	3	3	0	27		
SSE	4	6	8	1	0	0	19		
S	4	24	16	3	2	0	49		
SSW	3	19	22	0	0	0	44		
SW	8	30	1	0	0	0	39		
WSW	12	47	14	0	0	0	73		
W	10	24	23	1	0	0	58		
WNW	5	57	44	11	0	0	117		
NW	14	52	18	0	0	0	84		
NNW	8	51	7	0	0	0	66		
Variable	0	0	0	0	0	0	0		
Total	119	405	187	41	11	0	763		

Oyster Creek 2012 Annual Radioactive Effluent Release Report

Table D – 7Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, October – December, 2012

Oyster Creek Alpha

Period of Record: October - December 2012 Stability Class - Moderately Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind	Wind Speed (in mph)							
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total	
N	10	3	0	0	0	0	13	
NNE	7	1	0	0	0	0	8	
NE	6	0	0	0	0	0	6	
ENE	5	2	0	0	0	0	7	
E	1	0	0	0	0	0	1	
ESE	2	0	0	0	0	0	2	
SE	3	0	0	0	0	0	3	
SSE	0	0	0	0	0	0	0	
S	3	7	0	2	2	0	14	
SSW	6	0	0	0	0	0	6	
SW	12	15	0	0	0	0	27	
WSW	6	18	0	0	0	0	24	
W	14	16	0	0	0	0	30	
WNW	19	16	0	0	0	0	35	
NW	11	15	0	0	0	0	26	
NNW	12	30	0	0	0	0	42	
Variable	0	0	0	0	0	0	0	
Total	117	123	0	2	2	0	244	

Table D – 7Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Extremely Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind Speed (in mph)

Til - mai	Wind Speed (in mph)									
Wind Direction	1-3	⁻ 4-7	8-12	13-18	19-24	> 24	Total			
N	2	0	0	0	0	0	2			
NNE	4	0	0	0	0	0	4			
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	6	0	0	0	0	0	6			
SE	4	0	0	0	0	0	4			
SSE	4	0	0	0	0	0	4			
S	4	5	0	0	0	0	9			
SSW	7	1	0	0	0	0	8			
SW	23	7	0	0	0	0	30			
WSW	70	29	0	0	0	0	99			
W	85	14	0	0	0	0	99			
WNW	40	5	0	0	0	0	45			
NW	32	28	0	0	0	0	60			
NNW	18	12	0	0	0	0	30			
Variable	0	0	0	0	0	0	0			
Total	302	101	0	0	0	0	403			

Table D - 8Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Extremely Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

ta i cont		Wi	nd Speed	l (in mpł	ר)		
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
 N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	1	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	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	1	0	0	0	. 1
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	1	3	0	0	4
WNW	0	0	0	3	0	0	3
NW	0	0	0	5	3	0	8
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	3	11	3	0	17
Hours of calm in th Hours of missing wi	is stab	oility cl surements	ass: in this		ity class	. 0	10

Hours of missing wind measurements in this stability class: 0 Hours of missing stability measurements in all stability classes: 13

Table D – 8 Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Moderately Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

,		Wi	nd Speed	l (in mpl	ר)		
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
Ν	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	4	3	0	0	7
ENE	0	1	1	0	0	0	2
E	0	1	0	0	0	0	1
ESE	0	1	1	1	0	0	3
SE	0	0	1	2	0	0	3
SSE	0	0	1	2	0	0	3
S	0	0	0	0	0	0	0
SSW	0	0	0	3	0	0	3
SW	0	0	0	1	4	0	5
WSW	0	0	1	1	0	0	2
W	0	1	1	4	0	0	6
WNW	0	0	3	7	1	0	11
NW	0	0	3	9	3	1	16
NNW	0	0	0	2	1	0	3
Variable	0	0	0	0	0	0	0
Total	0	4	16	35	9	1	65
Hours of calm in the Hours of missing win Hours of missing sta	nd meas	urements	in this				13

Hours o Hours of missing stability measurements in all stability classes: 13

Table D – 8 Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Slightly Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

	Wind Speed (in mph)									
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total			
N	0	0	1	0	0	0	1			
NNE	0	1	1	1	0	0	3			
NE	0	0	11	4	0	0	15			
ENE	0	0	0	2	0	0	2			
E	0	0	1	0	0	0	1			
ESE	0	0	2	0	0	0	2			
SE	0	0	0	0	0	0	0			
SSE	0	0	0	1	0	0	1			
S	0	0	0	1	0	0	1			
SSW	0	0	2	6	1	0	9			
SW	0	0	0	1	1	0	2			
WSW	0	0	1	4	0	0	5			
W	0	1	0	7	4	0	12			
WNW	0	0	1	10	2	1	14			
NW	0	1	5	2	7	2	17			
NNW	0	0	0	2	0	0	2			
Variable	0	0	0	0	0	0	0			
Total	0	3	25	41	15	3	87			
Hours of calm in th Hours of missing wi Hours of missing st	nd meas	urements	in this				13			

Table D - 8Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Neutral - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind		Wi	nd Speed	d (in mp)	ר)		
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	6	14	10	1	0	31
NNE	1	12	35	18	6	4	76
NE	2	5	27	36	29	5	104
ENE	1	5	14	10	8	1	39
E	0	9	21	4	0	0	34
ESE	0	2	8	5	2	0	17
SE	2	2	3	8	0	1	16
SSE	0	1	2	1	9	2	15
S	1	4	7	8	1	1	22
SSW	0	4	11	17	15	0	47
SW	0	8	4	6	4	0	22
WSW	0	3	6	10	4	0	23
W	1	11	7	35	15	2	71
WNW	0	4	9	17	14	23	67
NW	1	4	11	40	34	16	106
NNW	1	3	7	28	8	0	47
Variable	0	0	0	0	0	0	0
Total	10	83	186	253	150	55	737

Table D – 8Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Slightly Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind		Wind Speed (in mph)								
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total			
N	0	3	11	8	5	0	27			
NNE	0	8	15	9	1	11	44			
NE	0	3	15	10	1	7	36			
ENE	0	1	11	8	4	8	32			
E	0	6	12	7	1	2	28			
ESE	0	7	7	9	0	1	24			
SE	0	5	3	3	10	8	29			
SSE	1	5	4	1	0	1	12			
S	0	2	7	8	5	10	32			
SSW	0	4	8	26	26	1	65			
SW	0	5	8	11	12	0	36			
WSW	0	2	9	31	7	1	50			
W	0	5	4	26	22	0	57			
WNW	2	2	4	21	35	11	75			
NW	0	1	7	30	46	3	87			
NNW	0	4	8	23	16	0	51			
Variable	0	0	0	0	0	0	0			
Total	3	63	133	231	191	64	685			

i.

,

Table D – 8Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Moderately Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

	Wind Speed (in mph)											
Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total					
N	0	0	11	24	19	1	55					
NNE	0	2	6	23	5	0	36					
NE	0	3	17	10	0	0	30					
ENE	3	2	3	2	0	0	10					
E	0	1	1	0	0	0	2					
ESE	0	0	1	1	0	0	2					
SE	0	4	0	0	0	0	4					
SSE	0	0	3	0	0	0	3					
S	0	2	0	1	0	0	3					
SSW	0	0	3	8	12	0	23					
SW	0	0	3	6	4	3	16					
WSW	0	1	4	9	9	3	26					
W	0	0	6	7	12	0	25					
WNW	0	2	3	8	16	4	33					
NW	0	1	1	10	12	8	32					
NNW	0	0	3	10	8	0	21					
Variable	0	0	0	0	0	0	0					
Total	3	18	65	119	97	19	321					

Table D - 8Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, October – December, 2012

Period of Record: October - December 2012 Stability Class - Extremely Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind		Wind Speed (in mph)									
Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total				
N	0	2	1	14	7	0	24				
NNE	0	1	5	12	11	0	29				
NE	2	3	11	7	0	0	23				
ENE	0	2	7	1	0	0	10				
E	1	3	3	1	0	0	8				
ESE	1	1	2	2	0	0	6				
SE	0	3	2	0	0	0	5				
SSE	0	3	1	0	1	0	5				
S	0	3	9	6	2	0	20				
SSW	3	0	4	1	1	1	10				
SW	0	2	5	3	8	0	18				
WSW	0	3	1	5	16	3	28				
W	1	1	3	2	4	0	11				
WNW	0	2	1	11 ~	23	10	47				
NW	3	0	4	2	7	1	17				
NNW	0	0	6	11	5	0	22				
Variable	0	0	0	0	0	0	0				
Total	11	29	65	78	85	15	283				

Table D – 9Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class - All Stabilities - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind					Wind	Speed	(in m	/s)				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
N	1	20	53	46	56	42	11	0	6	0	0	235
NNE	1	19	28	30	96	59	11	12	5	5	2	268
NE	2	21	48	36	130	114	34	14	5	1	0	405
ENE	0	11	35	56	118	111	60	9	5	1	0	406
E	1	11	31	37	103	58	22	8	4	0	0	275
ESE	1	11	12	22	101	54	21	5	1	0	0	228
SE	1	16	27	20	94	107	61	5	3	4	0	338
SSE	1	17	38	33	60	83	65	25	7	0	0	329
S	0	26	48	47	116	122	116	58	43	19	0	595
SSW	2	36	69	54	129	128	99	23	20	1	0	561
SW	1	62	89	103	212	101	63	20	7	0	0	658
WSW	6	110	256	267	225	90	44	12	6	0	0	1016
W	1	145	320	138	135	119	74	45	32	2	0	1011
WNW	1	90	150	125	201	155	109	60	36	2	0	929
NW	2	49	135	169	213	155	95	52	17	0	0	887
NNW	0	32	70	101	133	54	44	11	5	0	0	450
Tot Hours of Hours of Hours of Hours in	Calm Varia Valid Missi	 ble D Data ng Da	irectio ta	on . 8	2122 6 0 597 187 784	1552	929	359	202	35	2	8591

Table D – 9Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind					Wind	Speed	(in m	/s)				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
N	0	0	2	5	13	12	1	0	0	0	0	33
NNE	0	1	1	3	25	22	1	0	0	0	0	53
NE	0	0	2	3	31	40	15	1	0	0	0	92
ENE	0	0	3	5	43	61	30	2	0	0	0	144
Е	0	0	6	3	35	23	7	5	0	0	0	79
ESE	0	0	2	2	43	34	9	0	0	0	0	90
SE	0	0	2	5	30	80	48	2	0	0	0	167
SSE	0	0	3	1	11	30	24	8	1	0	0	78
S	0	0	4	1	16	30	63	35	25	4	0	178
SSW	0	0	2	6	8	10	28	10	8	1	0	73
SW	0	1	0	4	25	28	44	15	3	0	0	120
WSW	0	0	2	5	26	39	24	8	4	0	0	108
W	0	0	3	6	31	59	38	23	22	2	0	184
WNW	0	0	1	3	36	71	56	30	11	0	0	208
NW	0	0	2	8	46	69	62	41	14	0	0	242
NNW	0	0	0	1	22	23	22	10	5	0	0	83
Tot Hours of Hours of Hours of Hours in	Varia Valid Missi	 ble D Data ng Da	irectio ta	n . 19	441 0 932 187 784	631	472	190	93	7	0	1932

Table D – 9Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind					Wind	Speed	(in m	/s)				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
											0	
N	0	0	4	3	10	3	1	0	. 0	0	0	21
NNE	0	2	0	0	11	3	0	0	0	0	0	16
NE	0	1	3	8	10	5	3	0	0	0	0	30
ENE	0	0	0	4	11	12	6	0	. 0	0	0	33
Е	0	0	1	2	10	3	1	0	0	0	0	17
ESE	0	0	0	0	9	1	0	0	0	0	0	10
SE	0	0	1	3	12	6	1	1	0	0	0	24
SSE	0	0	1	1	6	6	6	5	1	0	0	26
S	0	0	0	4	2	7	8	5	1	1	0	28
SSW	0	1	3	1	3	3	6	2	2	0	0	21
SW	0	0	0	2	3	5	5	1	0	0	0	16
WSW	0	0	2	2	8	10	5	0	1	0	0	28
W	0	0	1	0	8	11	5	4	3	0	0	32
WNW	0	0	4	4	10	14	7	5	0	0	0	44
NW	0	1	2	2	12	15	5	2	1	0	0	40
NNW	0	0	0	3	9	2	3	0	0	0	0	17
Tot Hours of Hours of Hours of Hours in	Varia Valid Missi	ble D Data ng Da	irectio ta	•	1 34 0 0 403 187 784	106	62	25	9	1	0	403

Table D – 9Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind					Wind	Speed	(in m	/s)				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
Ν	0	0	3	4	1	3	0	0	0	0	0	11
NNE	0	0	0	0	3	0	0	0	0	0	0	3
NE	0	0	3	0	7	2	0	0	0	0	0	12
ENE	0	0	0	3	8	5	2	0	0	0	0	18
Е	0	0	1	2	3	2	2	0	0	0	0	10
ESE	0	0	0	1	4	0	1	0	0	0	0	6
SE	1	0	0	0	9	3	2	0	0	0	0	15
SSE	0	0	0	2	4	5	2	1	0	0	0	14
S	0	0	0	1	6	5	2	0	1	2	0	17
SSW	0	0	3	1	2	2	2	0	0	0	0	10
SW	0	0	0	1	1	6	1	0	0	0	0	9
WSW	0	0	2	0	2	2	1	0	0	0	0	7
W	0	0	1	1	2	2	0	1	0	0	0	7
WNW	0	0	1	2	6	6	3	1	1	1	0	21
NW	0	1	1	3	5	4	3	0	1	0	0	18
NNW	0	0	0	3	4	1	0	0	0	0	0	8
Tot Hours of Hours of Hours of Hours in	Calm Varia Valid Missi	 ble D Data ng Da	irectio ta	n . 1	67 0 0 186 187 784	48	21	3	3	3	0	186

Table D – 9Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class – Neutral - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind					Wind	Speed	(in m	/s)				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
Ν	0	5	15	15	21	19	8	0	5	0	0	88
NNE	0	5	3	15	42	27	8	8	0	2	0	110
NE	0	6	10	7	50	45	6	8	0	1	0	133
ENE	0	1	9	17	38	21	10	3	0	0	0	99
Е	1	4	7	12	25	19	11	1	1	0	0	81
ESE	0	3	2	11	21	9	6	3	0	0	0	55
SE	0	1	9	6	27	9	7	0	1	0	0	60
SSE	0	0	12	9	24	30	19	6	3	0	0	103
S	0	3	11	8	23	38	24	12	8	1	0	128
SSW	0	3	11	8	32	48	28	7	6	0	0	143
SW	0	4	5	7	31	24	8	1	0	0	0	80
WSW	0	2	11	8	38	18	2	2	0	0	0	81
W	0	2	14	13	23	15	13	9	6	0	0	95
WNW	0	8	5	10	41	29	13	9	16	1	0	132
NW	0	1	8	15	55	28	23	9	1	0	0	140
NNW	0	2	24	23	31	10	13	1	0	0	0	104
Tot Hours of Hours of Hours of Hours of Hours in	Varia Valid Missi:	 ble D Data ng Da	irectio ta	on . 16 . 1	522 0 0 532 187 784	389	199	79	47	5	0	1632

Table D – 9Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class – Slightly Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind					Wind	Speed	(in m	/s)				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
Ν	0	6	11	12	9	5	1	0	1	0	0	45
NNE	0	4	14	10	14	7	2	4	5	3	2	65
NE	0	9	24	14	31	22	9	4	5	0	0	118
ENE	0	5	17	22	17	12	8	4	5	1	0	91
Е	0	5	13	15	28	11	1	2	3	0	0	78
ESE	0	1	6	8	24	9	5	2	1	0	0	56
SE	0	8	7	6	16	9	3	2	2	4	0	57
SSE	1	10	13	16	15	12	13	5	2	0	0	87
S	0	10	14	20	64	41	19	6	8	7	0	189
SSW	0	9	25	27	80	64	35	4	4	0	0	248
SW	0	12	25	42	126	38	5	3	4	0	0	255
WSW	1	14	27	67	108	21	12	2	1	0	0	253
W	0	11	32	28	52	31	17	8	1	0	0	180
WNW	0	8	24	46	83	35	30	15	8	0	0	249
NW	0	14	28	41	71	39	2	0	0	0	0	195
NNW	0	7	9	29	45	17	6	0	0	0	0	113
Tot Hours of Hours of Hours of Hours in	Calm Varia Valid Missi	 ble D Data ng Da	irectio ta	on . 22	783 1 0 280 187 784	373	168	61	50	15	2	2279

Table D - 9Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class – Moderately Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind					Wind	Speed	(in m	/s)				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
N	0	5	12	6	2	0	0	0	0	0	0	25
NNE	0	2	9	2	1	0	0	0	0	0	0	14
NE	1	2	5	4	1	0	1	1	0	0	0	15
ENE	0	3	6	5	1	0	3	0	0	0	0	18
Е	0	0	3	2	2	0	0	0	0	0	0	7
ESE	0	2	2	0	0	1	0	0	0	0	0	5
SE	0	2	7	0	0	0	0	0	0	0	0	9
SSE	0	5	6	4	0	0	1	0	0	0	0	16
S	0	5	15	8	4	1	0	0	0	4	0	37
SSW	1	11	10	7	4	1	0	0	0	0	0	34
SW	0	10	26	25	24	0	0	0	0	0	0	85
WSW	2	17	32	73	34	0	0	0	0	0	0	158
W	0	17	49	32	16	1	1	0	0	0	0	116
WNW	1	15	34	33	22	0	0	0	0	0	0	105
NW	0	10	17	33	21	0	0	0	0	0	0	81
NNW	0	8	11	20	16	1	0	0	0	0	0	56
Tot Hours of Hours of Hours of Hours of Hours in	Varia Valid Missi	 ble D Data ng Da	irecti ta	on 	148 1 0 782 187 784	5	6	1	0	4	0	781

Table D – 9Wind Speed by Direction Measured at 33 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class – Extremely Stable - 150Ft-33Ft Delta-T (F) Winds Measured at 33 Feet

Wind					Wind	Speed	(in m	/s)				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
Ν	1	4	6	1	0	0	0	0	0	0	0	12
NNE	1	5	1	0	0	0	0	0	0	0	0	7
NE	1	3	1	0	0	0	0	0	0	0	0	5
ENE	0	2	0	0	0	0	1	0	0	0	0	3
E	0	2	0	1	0	0	0	0	0	0	0	3
ESE	1	5	0	0	0	0	0	0	0	0	0	6
SE	0	5	1	0	0	0	0	0	0	0	0	6
SSE	0	2	3	0	0	0	0	0	0	0	0	5
S	0	8	4	5	1	0	0	0	0	0	0	18
SSW	1	12	15	4	0	0	0	0	0	0	0	32
SW	1	35	33	22	2	0	0	0	0	0	0	93
WSW	3	77	180	112	9	0	0	0	0	0	0	381
W	1	115	220	58	3	0	0	0	0	0	0	397
WNW	0	59	81	27	3	0	0	0	0	0	0	170
NW	2	22	77	67	3	0	0	0	0	0	0	171
NNW	0	15	26	22	6	0	0	0	0	0	0	69
Tot Hours of Hours of Hours of Hours in	Calm Varia Valid Missi	 ble D Data ng Da	irecti ta	on . 13 . 1	27 4 0 382 187 784	0	1	0	0	0	0	1378

Table D – 10Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class – All Stabilities - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	Win 2.1- 3	d Spee 3.1- 4	d (in r 4.1- 5	n/s) 5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
N	0	1	1	6	26	53	51	60	119	63	16	396
NNE	0	2	6	8	34	40	69	58	70	26	22	335
NE	0	3	7	9	29	62	96	112	109	43	29	499
ENE	0	2	7	7	21	47	67	99	117	43	36	446
E	0	2	2	11	36	59	70	46	51	27	16	320
ESE	0	3	3	12	41	66	52	47	34	18	3	279
SE	0	2	6	19	57	58	80	35	50	13	17	337
SSE	0	4	3	11	47	62	70	65	55	34	9	360
S	0	1	9	13	31	41	66	76	117	47	38	439
SSW	0	2	10	10	28	37	52	107	245	162	72	725
SW	1	3	9	10	40	29	48	71	228	158	92	689
WSW	0	1	5	11	36	27	56	66	187	151	109	649
w	0	4	10	14	35	38	69	88	200	179	89	726
WNW	0	2	3	7	32	36	67	91	210	179	194	821
NW	0	1	8	11	33	57	68	108	242	242	160	930
NNW	0	3	3	4	21	35	53	75	195	181	65	635
Tot Hours of Hours of Hours of Hours in	Calm . Variab Valid Missin) le Di Data g Dat	rectio	n . 85 . 1	98	747	1034	1204	2229	1566	967	8586

94

Table D – 10Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class – Extremetly Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind Direction		0.5-	1.1-	1.6-	2.1-	nd Spee 3.1-	4.1-	5.1-	6.1-	8.1 -	>10.0	
Sector	<0.50	1	1.5	2	3	4	5	6	8	10	0	Total
N	0	0	0	0	0	0	0	1	2	1	0	4
NNE	0	0	0	0	0	1	2	2	0	0	0	5
NE	0	0	0	0	0	0	1	8	5	4	1	19
ENE	0	0	0	0	0	1	3	12	20	2	0	38
E	0	0	0	0	0	2	5	9	5	2	0	23
ESE	0	0	0	0	0	3	4	0	0	0	0	7
SE	0	0	0	0	0	4	7	9	2	0	0	22
SSE	0	0	0	0	0	2	1	11	6	0	0	20
S	0	0	0	0	0	1	1	2	4	4	2	14
SSW	0	0	0	0	1	0	1	4	3	3	0	12
SW	0	0	0	0	2	0	1	0	7	2	1	13
WSW	0	0	0	0	2	2	1	5	13	6	4	33
W	0	0	0	0	0	1	4	6	12	4	5	32
WNW	0	0	0	0	1	1	3	11	21	11	13	61
NW	0	0	0	0	0	1	4	7	26	26	10	74
NNW	0	0	0	0	0	2	3	6	18	7	11	47
Tot Hours of Hours of Hours of Hours in	Varia Valid Missin	 Dle D: Data ng Dat	 irectio ta	on	6 0 424 198 784	21	41	93	144	72	47	424

Table D – 10Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class – Moderately Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind					Wir	nd Spee	ed (in m	1/s)				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
Ν	0	0	0	0	0	5	3	4	0	0	0	12
NNE	0	0	0	0	0	1	1	1	0	0	0	3
NE	0	0	0	0	1	1	5	8	4	1	0	20
ENE	0	0	0	0	1	6	4	4	5	1	0	21
Е	0	0	0	0	2	6	6	2	0	1	0	17
ESE	0	0	0	0	2	11	4	2	3	0	0	22
SE	0	0	0	0	2	6	20	7	4	0	0	39
SSE	0	0	0	0	2	4	8	13	6	0	0	33
S	0	0	0	0	3	2	4	5	14	4	1	33
SSW	0	0	0	0	0	2	2	11	22	8	11	56
SW	0	0	0	0	2	3	2	5	14	4	3	33
WSW	0	0	0	0	1	3	6	1	10	3	0	24
W	0	0	0	2	2	3	10	12	12	8	6	55
WNW	0	0	0	0	0	5	6	11	18	5	11	56
NW	0	0	0	0	2	7	7	9	26	14	6	71
NNW	0	0	0	0	2	2	4	2	20	10	4	44
Tot Hours of Hours of Hours of Hours in	Calm Varia Valid Missin	 ble Di Data ng Dat	rection a	L	22 0 539 198 784	67	92	97	158	59	42	539

Table D – 10Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class – Slightly Unstable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind Direction		0.5-	1.1-	1.6-	2.1-	nd Spee 3.1-	4.1-	5.1-	6.1-	8.1-	>10.0	
Sector	<0.50	1	1.5	2	3	4	5	6	8	10	0	Total
N	0	0	0	0	2	1	1	1	2	1	0	8
NNE	0	0	0	0	2	4	2	3	0	0	0	11
NE	0	0	0	0	1	10	11	9	6	0	0	37
ENE	0	0	1	1	3	5	8	6	13	0	0	37
E	0	0	0	1	7	8	5	3	5	2	0	31
ESE	0	0	0	0	0	6	5	0	0	0	0	11
SE	0	0	0	0	6	8	16	3	7	0	0	40
SSE	0	0	0	0	0	6	13	12	3	1	0	35
S	0	0	1	2	0	1	9	9	17	1	0	40
SSW	0	0	0	0	2	7	3	8	31	6	6	63
SW	0	0	1	0	0	2	2	1	9	4	2	21
WSW	0	0	0	1	5	3	2	6	11	4	0	32
W	0	0	0	1	1	2	8	9	14	14	5	54
WNW	0	0	0	1	1	3	8	9	27	5	13	67
NW	0	0	0	1	9	12	13	9	12	8	21	85
NNW	0	0	0	0	3	2	5	5	5	6	2	28
Tot Hours of Hours of Hours of Hours in	Varia Valid Missi	 ble D: Data ng Da:	 ta	•	42 0 600 198 784	80	111	93	162	52	49	600

Table D ~ 10Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class – Neutral - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind					Wi	nd Spee	ed (in m	ı/s)				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
N	0	0	0	2	13	19	16	23	26	9	2	110
NNE	0	1	4	6	12	20	40	25	22	8	4	142
NE	0	1	2	5	8	29	38	41	65	36	18	243
ENE	0	0	3	3	11	18	28	51	64	28	10	216
Е	0	0	1	4	13	25	34	15	20	13	4	129
ESE	0	1	1	4	16	26	24	26	19	14	1	132
SE	0	2	2	6	29	24	24	11	28	5	6	137
SSE	0	2	2	3	21	25	30	22	30	28	8	171
S	0	0	5	5	18	21	30	28	39	17	20	183
SSW	0	0	2	3	13	10	18	30	83	59	24	242
SW	0	0	2	5	11	7	9	21	55	43	9	162
WSW	0	0	1	3	10	5	17	20	44	22	9	131
W	0	1	6	6	13	9	15	26	56	28	26	186
WNW	0	0	2	0	10	10	18	27	37	29	64	197
NW	0	1	3	7	9	18	18	32	76	59	48	271
NNW	0	1	1	2	5	9	21	27	37	25	23	151
Tot Hours of Hours of Hours of Hours in	Calm Varia Valid Missi	ble D Data ng Da	irectio ta	n . 2	212 0 0 803 198 784	275	380	425	701	423	276	2803

Table D – 10Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class – Slightly Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind					Wir	nd Spee	ed (in m	n/s)				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
Ν	0	0	1	1	4	14	13	10	15	10	0	68
NNE	0	0	1	1	10	6	15	13	11	1	11	69
NE	0	1	3	2	5	9	16	10	13	1	10	70
ENE	0	1	0	1	0	6	10	13	13	11	26	81
E	0	0	0	3	· 9	10	13	14	19	9	12	89
ESE	0	1	1	6	17	18	9	15	10	4	2	83
SE	0	0	2	5	11	10	5	3	8	8	11	63
SSE	0	2	0	4	16	15	11	4	9	4	1	66
S	0	1	2	3	6	8	7	12	28	14	15	96
SSW	0	1	2	4	6	8	17	28	82	75	23	246
SW	0	1	3	3	13	12	17	25	103	71	45	293
WSW	0	1	2	2	10	6	10	17	73	67	34	222
W	0	2	4	2	10	6	11	16	62	77	17	207
WNW	0	2	1	1	3	6	12	15	50	53	38	181
NW	0	0	1	2	5	3	7	30	56	69	27	200
NNW	0	1	1	0	6	7	9	18	49	71	12	174
Tot Hours of Hours of Hours of Hours ir	E Calm Varia Valic Missi	 ble D l Data .ng Da	irectio	on . 2	131 0 208 198 784	144	182	243	601	545	284	2208

Table D – 10Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class – Moderately Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind					Wir	nd Spee	ed (in m	ı/s)				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
N	0	1	0	0	6	5	10	10	49	26	10	117
NNE	0	1	1	0	5	5	4	7	25	8	0	56
NE	0	0	0	1	5	9	13	14	10	0	0	52
ENE	0	1	3	2	2	3	6	9	0	1	0	27
E	0	1	1	2	2	2	3	. 1	2	0	0	14
ESE	0	0	1	2	5	0	2	2	0	0	0	12
SE	0	0	2	5	4	5	1	1	0	0	0	18
SSE	0	0	0	2	4	6	2	3	0	0	0	17
S	0	0	1	1	1	4	8	7	10	1	0	33
SSW	0	0	4	2	2	5	8	14	21	11	6	73
SW	1	2	3	1	3	2	9	10	29	25	25	110
WSW	0	0	1	1	2	4	8	7	26	26	44	119
W	0	0	0	0	4	7	9	11	32	35	18	116
WNW	0	0	0	4	8	5	10	9	30	37	23	126
NW	0	0	1	0	3	9	10	8	28	34	40	133
NNW	0	0	0	1	2	3	5	9	32	45	9	106
Tot Hours of Hours of Hours of Hours in	Calm Varia Valid Missin	 ble D: Data ng Dat	irectio ta	n . 11 . 1	58 0 0 129 198 784	74	108	122	294	249	175	1129

Table D – 10Wind Speed by Direction Measured at 380 Feet for various Stability Classes for the
Oyster Creek Generating Station, January – December, 2012

Period of Record: January - December 2012 Stability Class – Extremely Stable - 380Ft-33Ft Delta-T (F) Winds Measured at 380 Feet

Wind						-	ed (in m	-				
Direction Sector	<0.50	0.5- 1	1.1- 1.5	1.6- 2	2.1- 3	3.1- 4	4.1- 5	5.1- 6	6.1- 8	8.1- 10	>10.0 0	Total
Ν	0	0	0	3	1	9	8	11	25	16	4	77
NNE	0	0	0	1	5	3	5	7	12	9	7	49
NE	0	1	2	1	9	4	12	22	6	1	0	58
ENE	0	0	0	0	4	8	8	4	2	0	0	26
Е	0	1	0	1	3	6	4	2	0	0	0	17
ESE	0	1	0	0	1	2	4	2	2	0	0	12
SE	0	0	0	3	5	1	7	1	1	0	0	18
SSE	0	0	1	2	4	4	5	0	1	1	0	18
S	0	0	0	2	3	4	7	13	5	6	0	40
SSW	0	1	2	1	4	5	3	12	3	0	2	33
SW	0	0	0	1	9	3	8	9	11	9	7	57
WSW	0	0	1	4	6	4	12	10	10	23	18	88
W	0	1	0	3	5	10	12	8	12	13	12	76
WNW	0	0	0	1	9	6	10	9	27	39	32	133
NW	0	0	3	1	5	7	9	13	18	32	8	96
NNW	0	1	1	1	3	10	6	8	34	17	4	85
Tot Hours of Hours of Hours of Hours in	Varia Valid Missi	ble D Data ng Da	 ta	•	76 0 883 198 784	86	120	131	169	166	94	883

Appendix E ODCM Revisions

None

Appendix F ERRATA

None