

OYSTER CREEK GENERATING STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002

TABLE 1A
GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Yearly Total	Est. Total Error, %
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A. Fission & activation gases							
1. Total release	Ci	3.56E+01	5.71E+01	4.36E+01	1.16E+00	1.37E+02	+/- 25
2. Average release rate for period	u Ci/sec	4.52E+00	7.27E+00	5.48E+00	1.45E-01	4.35E+00	
3. Percent of Technical Specification							
a. 0.21/Energy (average) - gamma (elevated release only)	%	1.57E-03	2.67E-03	1.47E-03	4.83E-05	1.44E-03	
b. Dose rate due to gaseous effluent -							
Total Body - 500 mrem/year	%					3.52E-04	
Skin - 3000 mrem/year	%					8.70E-05	
c. Air dose due to noble gas in gaseous effluent -							
5 mRad/calendar quarter due to gamma radiation	%	3.30E-02	6.18E-02	3.64E-02	4.92E-03		
10 mRad/calendar quarter due to beta radiation	%	3.60E-03	9.72E-03	1.21E-02	1.05E-03		
10 mRad/calendar year due to gamma radiation	%					4.94E-02	
20 mRad/calendar year due to beta radiation	%					9.40E-03	

B. Iodines							
1. Total iodine-131	Ci	3.98E-03	4.63E-03	3.39E-03	1.71E-03	1.37E-02	+/- 25
2. Average release rate for period	u Ci/sec	5.06E-04	5.89E-04	4.27E-04	2.15E-04	4.34E-04	
3. Percent of Technical Specification							
a. Dose rate due to gaseous effluent -							
Any body organ - 1500 mrem/year (H-3, I-131, I-133, & Part. T1/2 > 8 D)	%					*	
b. Dose due to radioiodine and particulates in gaseous effluent -							
Any body organ per calendar quarter - 7.5 mrem	%	6.16E-02	4.32E-01	2.35E-01	*		
Any body organ per calendar year - 15 mrem	%					*	

C. Particulates							
1. Particulates with half-lives > 8 days	Ci	1.35E-02	5.65E-03	2.50E-03	*	*	+/- 25
2. Average release rate for period	u Ci/sec	1.72E-03	7.19E-04	3.15E-04	*	*	
3. Percent of Technical Specification							
a. Dose rate due to gaseous effluent -							
Any body organ - 1500 mrem/year (H-3, I-131, I-133, & Part. T1/2 > 8 D)	%					±	
b. Dose due to radioiodine and particulates in gaseous effluent -							
Any body organ per calendar quarter - 7.5 mrem	%	6.16E-02	4.32E-01	2.35E-01	±		
Any body organ per calendar year - 15 mrem	%					±	
4. Gross alpha radioactivity	Ci	7.90E-07	1.05E-06	< LLD	< LLD	1.84E-06	

* Sr-89 & 90 data not yet received - An addendum will be issued once the data are received

C. Tritium							
1. Total Release	Ci	7.60E+00	7.84E+00	9.58E+00	4.40E+00	2.94E+01	+/- 25
2. Average release rate for period	u Ci/sec	9.66E-01	9.97E-01	1.21E+00	5.53E-01	9.30E-01	
3. Percent of Technical Specification							
a. Dose rate due to gaseous effluent -							
Any body organ - 1500 mrem/year (H-3, I-131, I-133, & Part. T1/2 > 8 D)	%					*	

Nuclides Released	Unit	Continuous Mode				
		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Yearly Total
1. Fission gases						
krypton-85	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
krypton-85m	Ci	2.59E+00	2.34E+00	4.14E-01	6.15E-02	5.41E+00
krypton-87	Ci	9.19E+00	9.39E+00	7.67E+00	2.94E-01	2.65E+01
krypton-88	Ci	6.88E+00	1.38E+01	5.60E+00	2.14E-01	2.65E+01
xenon-133	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
xenon-135	Ci	1.69E+01	2.37E+01	2.96E+01	5.86E-01	7.08E+01
xenon-135m	Ci	< LLD	7.89E+00	< LLD	< LLD	7.89E+00
xenon-138	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
Others						
None						
Total for period	Ci	3.56E+01	5.71E+01	4.33E+01	1.16E+00	1.37E+02

2. Iodines						
iodine-131	Ci	3.98E-03	4.63E-03	3.39E-03	1.71E-03	1.37E-02
iodine-132	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
iodine-133	Ci	2.13E-02	3.34E-02	2.80E-02	2.24E-03	8.49E-02
iodine-135	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
Total for period	Ci	2.53E-02	3.80E-02	3.14E-02	3.95E-03	9.87E-02

C. Particulates						
strontium-89	Ci	5.30E-03	2.03E-03	< LLD	*	*
strontium-90	Ci	3.80E-05	1.40E-05	< LLD	*	*
cesium-134	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
cesium-137	Ci	6.95E-05	4.81E-05	< LLD	1.79E-04	2.97E-04
barium-140	Ci	8.11E-03	3.56E-03	2.50E-03	9.09E-04	1.51E-02
lanthanum-140	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
Others						
chromium-51	Ci	< LLD	< LLD	< LLD	4.84E-05	4.84E-05
manganese-54	Ci	< LLD	< LLD	< LLD	1.01E-05	1.01E-05
cobalt-58	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
cobalt-60	Ci	< LLD	< LLD	< LLD	5.29E-05	5.29E-05
technetium-99m	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
Total for period	Ci	1.35E-02	5.65E-03	2.50E-03	*	*

* Data not yet received - An addendum will be issued once the data are received

OYSTER CREEK GENERATING STATION
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 TABLE 1C
 GASEOUS EFFLUENTS - GROUND-LEVEL RELEASES

Nuclides Released	Unit	Continuous Mode				
		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Yearly Total

		1	2	3	4	Total
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1. Fission gases						
krypton-85	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
krypton-85m	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
krypton-87	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
krypton-88	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
xenon-133	Ci	< LLD	< LLD	3.01E-01	< LLD	3.01E-01
xenon-135	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
xenon-135m	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
xenon-138	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
Others						
None						
Total for period	Ci	< LLD	< LLD	3.01E-01	< LLD	3.01E-01

2. Iodines						
iodine-131	Ci	1.31E-06	1.58E-06	1.08E-06	3.04E-06	7.01E-06
iodine-133	Ci	7.85E-06	9.63E-06	4.76E-06	6.81E-06	2.91E-05
iodine-135	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
Total for period	Ci	9.16E-06	1.12E-05	5.84E-06	9.85E-06	3.61E-05

C. Particulates						
strontium-89	Ci	4.42E-06	< LLD	< LLD	*	*
strontium-90	Ci	< LLD	< LLD	< LLD	*	*
cesium-134	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
cesium-137	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
barium-140	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
lanthanum-140	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
Others						
manganese-54	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
cobalt-60	Ci	< LLD	< LLD	< LLD	< LLD	< LLD
Total for period	Ci	4.42E-06	< LLD	< LLD	*	*

* Data not yet received - An addendum will be issued once the data are received

OYSTER CREEK GENERATING STATION
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TABLE 2A
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Yearly Total	Est. Total Error, %
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A. Fission & activation products							
1. Total release (not including tritium, gases, alpha)	Ci	No Releases	No Releases	No Releases	No Releases	No Releases	+/- 25
2. Average diluted concentration during period	μ Ci/ml	-	-	-	-	-	

3. Percent of Technical Specification								
a. Radioactivity Concentration in Liquid Effluent								
The concentration of radioactive material, other than noble gases shall not exceed 10 times the liquid effluent concentrations specified in 10CFR Part 20.1001-20.2401, Appendix B, Table II, Column 2	%							-
b. Limit on Dose Due to Liquid Effluent								
Total Body - 1.5 mrem/calendar quarter	%	-	-	-	-			
Any Body Organ - 5.0 mrem/calendar quarter	%	-	-	-	-			
Total Body - 3.0 mrem/calendar year	%							-
Any Body Organ - 10.0 mrem/calendar year	%							-

B. Tritium								
1. Total release	Ci	No Releases	No Releases	No Releases	No Releases	No Releases		+/- 25
2. Average diluted concentration during period	u Ci/ml	-	-	-	-	-		
3. Percent of Technical Specification								
a. Shall not exceed 10 times the liquid effluent concentrations specified in 10CFR Part 20.1001-20.2401, Appendix B, Table II, Column 2	%							-
b. Limit on Dose Due to Liquid Effluent								
Total Body - 1.5 mrem/calendar quarter	%	-	-	-	-			
Any Body Organ - 5.0 mrem/calendar quarter	%	-	-	-	-			
Total Body - 3.0 mrem/calendar year	%							-
Any Body Organ - 10.0 mrem/calendar year	%							-

C. Dissolved and entrained gases								
1. Total release	Ci	No Releases	No Releases	No Releases	No Releases	No Releases		+/- 25
2. Average diluted concentration during period	u Ci/ml	-	-	-	-	-		
3. Percent of Technical Specification								
a. Shall not exceed 2.0 E-4 u Ci/ml	%							-
b. Limit on Dose Due to Liquid Effluent								
Total Body - 1.5 mrem/calendar quarter	%	-	-	-	-			
Any Body Organ - 5.0 mrem/calendar quarter	%	-	-	-	-			
Total Body - 3.0 mrem/calendar year	%							-
Any Body Organ - 10.0 mrem/calendar year	%							-

D. Gross alpha radioactivity								
1. Total release	Ci	No Releases	No Releases	No Releases	No Releases	No Releases		+/- 25

E. Volume of waste released (prior to dilution)	liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		+/- 10
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F. Volume of dilution water used during period	liters	4.31E+11	4.76E+11	4.80E+11	4.30E+11	1.82E+12		+/- 10
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OYSTER CREEK GENERATING STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
TABLE 2B
LIQUID EFFLUENTS

Nuclides Released	Unit	Batch Mode				Yearly Total
		Quarter 1	Quarter 2	Quarter 3	Quarter 4	
strontium-89	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
strontium-90	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
cesium-134	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
cesium-137	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
iodine-131	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
cobalt-58	Ci	No Releases	No Releases	No Releases	No Releases	No Releases

cobalt-60	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
iron-59	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
zinc-65	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
manganese-54	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
chromium-51	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
zirconium-95	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
niobium-95	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
technetium-99m	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
barium-140	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
lanthanum-140	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
cerium-141	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
Other	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
unidentified	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
Total for period	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
xenon-133	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
xenon-135	Ci	No Releases	No Releases	No Releases	No Releases	No Releases
Total for period	Ci	No Releases	No Releases	No Releases	No Releases	No Releases

OYSTER CREEK GENERATING STATION
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TABLE 3A
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS - SUMMARY

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not irradiated fuel)

1. Type of waste	Unit	Yearly Total	Est. Total Error, %
a. Spent resins, filters, filter sludges, etc	m ³	None	
	Ci	Shipped	
b. Dry compressible waste, contaminated equipment, etc.	m ³	1.48E+03	+/- 25
	Ci	1.07E-01	
c. Irradiated components, control rods, etc.	m ³	None	
	Ci	Shipped	
d. Other waste	m ³	2.39E+01	+/- 25
	Ci	5.22E+00	

Note: No solidification agent was used during the reporting period

2. Estimate of major nuclear composition (by type of waste)

- a. None Shipped_____
- None Shipped_____
- None Shipped_____
- b. cobalt-60_____
- iron-55_____
- cesium-137_____
- c. None Shipped_____
- None Shipped_____
- None Shipped_____
- d. iron-55_____
- cobalt-60_____
- chromium-51_____

Percentage (%)	Activity (Ci)
N/A	N/A
N/A	N/A
N/A	N/A
3.76E+01	4.04E-02
3.45E+01	3.71E-02
2.08E+01	2.24E-02
N/A	N/A
N/A	N/A
N/A	N/A
3.35E+01	1.75E+00
3.28E+01	1.71E+00
2.09E+01	1.09E+00

Note - See attached tables (Table 3B) for additional data

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
5	Motor Vehicle	American Ecology Recycle Center, Inc.
4	Motor Vehicle	Duratek Radwaste Processing, Inc.
3	Motor Vehicle	Duratek
2	Motor Vehicle	Duratek Memphis Group, L.L.C.
2	Motor Vehicle	RACE, L.L.C.
1	Motor Vehicle	East Tennessee Materials & Energy Corp.
1	Motor Vehicle	Perma-Fix of Florida

B. IRRADIATED FUEL SHIPMENTS (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
None Shipped		

OYSTER CREEK GENERATING STATION
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TABLE 4B
CLASSIFICATION OF ATMOSPHERIC STABILITY

Stability Classification	Pasquill Categories	Sigma-Theta ^a (degrees)	Temperature change with height (degrees-C/100m)
Extremely unstable	A	25.0	< -1.9
Moderately unstable	B	20.0	-1.9 to -1.7
Slightly unstable	C	15.0	-1.7 to -1.5
Neutral	D	10.0	-1.5 to -0.5
Slightly stable	E	5.0	-0.5 to 1.5
Moderately stable	F	2.5	1.5 to 4.0
Extremely stable	G	1.7	> 4.0

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

First Quarter					
Average Energy	7.31E-01				
Gamma Ebar	2.87E-01	Ci/sec	2.87E+05		uCi/se
Average Rate of Release	4.52E+00	uCi/sec			
Percent of Tech Spec	1.57E-03	Percent			
Second Quarter					
Average Energy	7.72E-01				
Gamma Ebar	2.72E-01	Ci/sec	2.72E+05		uCi/sec
Average Rate of Release	7.27E+00	uCi/sec			
Percent of Tech Spec	2.67E-03	Percent			
Third Quarter					
Average Energy	5.64E-01				
Gamma Ebar	3.72E-01	Ci/sec	3.72E+05		uCi/se
Average Rate of Release	5.48E+00	uCi/sec			
Percent of Tech Spec	1.47E-03	Percent			
Fourth Quarter					
Average Energy	6.99E-01				
Gamma Ebar	3.01E-01	Ci/sec	3.01E+05		uCi/se
Average Rate of Release	1.45E-01	uCi/sec			
Percent of Tech Spec	4.83E-05	Percent			



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TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category A
ELEVATION:	33 foot

Wind Direction	Wind Speed (mph) at 33 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	16	36	17	2	0	0	71
NNE	16	25	3	0	0	0	44
NE	13	37	35	1	0	0	86
ENE	20	57	88	11	0	0	176
E	9	57	59	2	0	0	127
ESE	9	55	37	1	0	0	102

SE	7	83	79	1	0	0	170
SSE	18	54	91	14	0	0	177
S	28	71	113	42	0	0	254
SSW	32	80	111	50	0	0	273
SW	26	99	66	2	0	0	193
WSW	44	116	78	15	0	0	253
W	46	95	108	22	1	0	272
WNW	37	64	97	40	0	0	238
NW	43	56	59	25	0	0	183
NNW	51	64	41	6	0	0	162
VARIABLE	0	0	0	0	0	0	0
TOTAL	415	1049	1082	234	1	0	2781
Periods of Calm (hours):	0	Hours					
Hours of missing data (Total):	1489	Hours					

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

OYSTER CREEK GENERATING STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category B
ELEVATION:	33 foot

Wind Direction	Wind Speed (mph) at 33 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	3	0	0	0	0	0	3
NNE	2	2	1	1	0	0	6
NE	0	10	2	0	0	0	12
ENE	0	11	0	0	0	0	11
E	1	5	3	0	0	0	9
ESE	0	3	2	0	0	0	5
SE	0	1	5	0	0	0	6
SSE	1	2	2	1	0	0	6
S	2	4	6	4	0	0	16
SSW	0	4	5	7	0	0	16

SW	1	13	11	3	0	0	28
WSW	3	9	8	0	0	0	20
W	7	7	11	2	0	0	27
WNW	5	11	14	7	0	0	37
NW	3	9	16	8	0	0	36
NNW	4	9	8	0	0	0	21
VARIABLE	0	0	0	0	0	0	0
TOTAL	32	100	94	33	0	0	259

Periods of Calm (hours):	0	Hours
Hours of missing data (Total):	1489	Hours

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

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TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category C
ELEVATION:	33 foot

Wind Direction	Wind Speed (mph) at 33 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	1	5	0	0	0	0	6
NNE	0	1	0	0	0	0	1
NE	1	3	1	0	0	0	5
ENE	0	2	1	0	0	0	3
E	0	2	2	0	0	0	4
ESE	0	1	2	0	0	0	3
SE	0	0	0	1	0	0	1
SSE	0	1	1	0	0	0	2
S	0	6	6	3	0	0	15
SSW	2	3	6	3	0	0	14
SW	0	2	2	1	0	0	5
WSW	1	6	1	1	0	0	9
W	1	7	3	0	0	0	11
WNW	1	6	14	2	2	0	25

NW	1	3	4	2	1	0	11
NNW	1	1	3	2	0	0	7
VARIABLE	0	0	0	0	0	0	0
TOTAL	9	49	46	15	3	0	122
Periods of Calm (hours):	0		Hours				
Hours of missing data (Total):	1489		Hours				
<p>^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation</p>							

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TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category D
ELEVATION:	33 foot

Wind Direction	Wind Speed (mph) at 33 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	2	8	8	1	0	0	19
NNE	7	18	4	0	0	0	29
NE	8	18	8	0	0	0	34
ENE	8	25	27	1	0	0	61
E	6	26	18	0	0	0	50
ESE	2	22	7	0	0	0	31
SE	2	12	1	0	0	0	15
SSE	6	13	12	0	0	0	31
S	4	22	30	7	0	0	63
SSW	8	26	47	17	2	0	100
SW	8	38	19	2	0	0	67
WSW	17	45	18	1	0	0	81
W	8	27	22	3	0	0	60
WNW	8	28	31	9	1	0	77
NW	9	34	45	12	0	0	100
NNW	10	34	14	4	0	0	62
VARIABLE	0	0	0	0	0	0	0
TOTAL	113	396	311	57	3	0	880

Periods of Calm (hours):	0	Hours
Hours of missing data (Total):	1489	Hours

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

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TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category E
ELEVATION:	33 foot

Wind Direction	Wind Speed (mph) at 33 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	14	26	6	0	0	0	46
NNE	11	24	8	0	0	0	43
NE	14	33	21	2	0	0	70
ENE	10	19	36	3	0	0	68
E	4	11	27	9	0	0	51
ESE	2	8	11	1	0	0	22
SE	8	12	2	6	0	0	28
SSE	12	12	8	1	0	0	33
S	16	45	28	11	3	0	103
SSW	20	77	52	30	1	0	180
SW	28	118	53	2	0	0	201
WSW	35	129	19	1	0	0	184
W	47	89	41	2	0	0	179
WNW	32	108	50	12	0	0	202
NW	34	94	57	5	0	0	190
NNW	17	65	30	3	0	0	115
VARIABLE	0	0	0	0	0	0	0
TOTAL	304	870	449	88	4	0	1715
Periods of Calm (hours):	0		Hours				
Hours of missing data (Total):	1489		Hours				

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

OYSTER CREEK GENERATING STATION
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TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category F
ELEVATION:	33 foot

Wind Direction	Wind Speed (mph) at 33 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	3	6	1	0	0	0	10
NNE	3	1	0	0	0	0	4
NE	2	1	1	5	0	0	9
ENE	0	1	4	0	0	0	5
E	2	4	1	2	0	0	9
ESE	1	0	0	0	0	0	1
SE	3	1	1	1	0	0	6
SSE	2	1	0	1	0	0	4
S	8	5	0	0	0	0	13
SSW	18	14	0	0	0	0	32
SW	20	43	1	0	0	0	64
WSW	39	86	1	0	0	0	126
W	39	47	5	0	0	0	91
WNW	33	41	6	1	0	0	81
NW	24	59	5	1	0	0	89
NNW	21	30	3	0	0	0	54
VARIABLE	0	0	0	0	0	0	0
TOTAL	218	340	29	11	0	0	598
Periods of Calm (hours):	0		Hours				
Hours of missing data (Total):	1489		Hours				

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

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TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category G
ELEVATION:	33 foot

Wind Direction	Wind Speed (mph) at 33 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	14	5	1	0	0	0	20
NNE	9	1	0	0	0	0	10
NE	6	1	8	0	0	0	15
ENE	3	3	2	0	0	0	8
E	8	2	0	0	0	0	10
ESE	9	2	2	0	0	0	13
SE	5	9	0	2	0	0	16
SSE	7	5	0	0	1	0	13
S	12	0	1	0	0	0	13
SSW	17	7	3	0	0	0	27
SW	23	25	0	0	0	0	48
WSW	102	75	0	0	0	0	177
W	160	52	0	0	0	0	212
WNW	95	42	1	3	0	0	141
NW	60	43	2	1	0	0	106
NNW	45	42	0	0	0	0	87
VARIABLE	0	0	0	0	0	0	0
TOTAL	575	314	20	6	1	0	916
Periods of Calm (hours):	0						Hours
Hours of missing data (Total):	1489						Hours

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

OYSTER CREEK GENERATING STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002

TABLE 4A
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	All Pasquill Categories
ELEVATION:	33 foot

Wind Direction	Wind Speed (mph) at 33 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	53	86	33	3	0	0	175
NNE	48	72	16	1	0	0	137
NE	44	103	76	8	0	0	231
ENE	41	118	158	15	0	0	332
E	30	107	110	13	0	0	260
ESE	23	91	61	2	0	0	177
SE	25	118	88	11	0	0	242
SSE	46	88	114	17	1	0	266
S	70	153	184	67	3	0	477
SSW	97	211	224	107	3	0	642
SW	106	338	152	10	0	0	606
WSW	241	466	125	18	0	0	850
W	308	324	190	29	1	0	852
WNW	211	300	213	74	3	0	801
NW	174	298	188	54	1	0	715
NNW	149	245	99	15	0	0	508
VARIABLE	0	0	0	0	0	0	0
TOTAL	1666	3118	2031	444	12	0	7271
Periods of Calm (hours):	0		Hours				
Hours of missing data (Total):	1489		Hours				

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

OYSTER CREEK GENERATING STATION
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TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category A
ELEVATION:	380 foot

Wind Direction	Wind Speed (mph) at 380 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	5	8	20	17	0	1	51
NNE	3	11	13	9	1	0	37
NE	3	6	19	21	10	1	60
ENE	3	10	18	40	23	15	109
E	0	12	28	19	9	0	68
ESE	1	17	52	13	0	2	85

SE	0	17	63	24	2	0	106
SSE	0	7	49	61	12	0	129
S	2	9	43	88	25	5	172
SSW	3	6	34	65	68	12	188
SW	0	6	24	42	25	1	98
WSW	1	8	31	39	30	8	117
W	1	9	39	70	33	12	164
WNW	11	7	27	35	33	36	149
NW	3	6	23	44	17	28	121
NNW	3	8	25	37	19	0	92
VARIABLE	0	0	0	0	0	0	0
TOTAL	39	147	508	624	307	121	1746
Periods of Calm (hours):	0	Hours					
Hours of missing data (Total):	32	Hours					

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

OYSTER CREEK GENERATING STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category B
ELEVATION:	380 foot

Wind Direction	Wind Speed (mph) at 380 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	0	6	3	2	5	0	16
NNE	0	6	4	7	0	0	17
NE	0	1	7	2	0	0	10
ENE	1	0	18	12	2	0	33
E	1	2	8	2	0	0	13
ESE	0	5	3	6	0	0	14
SE	0	4	12	3	0	0	19
SSE	0	1	12	11	0	0	24
S	1	4	13	25	6	1	50
SSW	1	3	8	23	18	1	54

SW	1	1	5	5	9	1	22
WSW	0	1	8	18	1	1	29
W	2	1	10	21	4	2	40
WNW	10	4	6	25	13	12	70
NW	3	2	10	25	13	13	66
NNW	0	4	14	10	12	1	41
VARIABLE	0	0	0	0	0	0	0
TOTAL	20	45	141	197	83	32	518

Periods of Calm (hours):	0	Hours
Hours of missing data (Total):	32	Hours

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

OYSTER CREEK GENERATING STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category C
ELEVATION:	380 foot

Wind Direction	Wind Speed (mph) at 380 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	1	10	10	6	0	0	27
NNE	0	5	2	2	1	0	10
NE	1	2	5	5	3	0	16
ENE	2	2	15	8	0	1	28
E	0	3	9	8	0	0	20
ESE	0	9	6	6	0	0	21
SE	0	9	11	3	0	0	23
SSE	0	3	12	12	0	0	27
S	1	0	14	17	4	1	37
SSW	2	0	6	21	12	2	43
SW	2	0	5	14	6	1	28
WSW	4	2	10	6	6	0	28
W	4	4	15	18	3	0	44
WNW	3	2	11	13	12	15	56

NW	3	3	16	23	12	12	69
NNW	1	2	12	8	3	1	27
VARIABLE	0	0	0	0	0	0	0
TOTAL	24	56	159	170	62	33	504
Periods of Calm (hours):	0		Hours				
Hours of missing data (Total):	32		Hours				
^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation							

OYSTER CREEK GENERATING STATION
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TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category D
ELEVATION:	380 foot

Wind Direction	Wind Speed (mph) at 380 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	7	16	42	33	15	0	113
NNE	5	12	36	30	5	5	93
NE	9	13	31	43	34	27	157
ENE	15	17	18	32	27	17	126
E	4	10	36	30	23	13	116
ESE	1	10	24	25	6	0	66
SE	1	10	22	11	4	1	49
SSE	5	18	36	13	7	3	82
S	2	16	34	47	6	11	116
SSW	12	6	37	79	70	45	249
SW	2	10	36	73	45	9	175
WSW	4	5	31	45	35	5	125
W	9	9	25	62	31	15	151
WNW	26	8	26	48	74	58	240
NW	7	13	40	71	68	51	250
NNW	4	8	42	74	30	17	175
VARIABLE	0	0	0	0	0	0	0
TOTAL	113	181	516	716	480	277	2283

Periods of Calm (hours):	0	Hours
Hours of missing data (Total):	32	Hours

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

OYSTER CREEK GENERATING STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category E
ELEVATION:	380 foot

Wind Direction	Wind Speed (mph) at 380 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	5	9	30	58	20	3	125
NNE	5	7	17	12	3	1	45
NE	5	10	12	23	22	17	89
ENE	2	5	11	6	11	11	46
E	2	12	9	6	8	5	42
ESE	2	10	11	13	3	3	42
SE	1	15	11	4	4	4	39
SSE	2	9	14	6	2	1	34
S	0	8	23	33	9	8	81
SSW	5	6	31	109	54	10	215
SW	10	7	25	95	110	44	291
WSW	8	5	16	70	94	24	217
W	5	5	26	55	79	20	190
WNW	6	6	23	57	67	15	174
NW	4	3	28	49	58	8	150
NNW	7	3	17	56	43	8	134
VARIABLE	0	0	0	0	0	0	0
TOTAL	69	120	304	652	587	182	1914
Periods of Calm (hours):	0		Hours				
Hours of missing data (Total):	32		Hours				

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

OYSTER CREEK GENERATING STATION
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TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category F
ELEVATION:	380 foot

Wind Direction	Wind Speed (mph) at 380 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	7	5	19	52	20	3	106
NNE	5	7	12	10	1	0	35
NE	8	3	13	8	11	1	44
ENE	1	3	5	4	0	1	14
E	1	3	5	4	1	0	14
ESE	2	7	4	4	0	0	17
SE	4	6	7	6	0	2	25
SSE	0	8	9	3	0	0	20
S	1	4	16	3	3	0	27
SSW	1	5	15	16	9	5	51
SW	2	2	14	29	40	20	107
WSW	13	3	15	22	45	24	122
W	7	4	6	30	52	28	127
WNW	4	6	9	33	41	6	99
NW	4	2	10	26	64	16	122
NNW	1	3	6	33	51	10	104
VARIABLE	0	0	0	0	0	0	0
TOTAL	61	71	165	283	338	116	1034
Periods of Calm (hours):	0		Hours				
Hours of missing data (Total):	32		Hours				

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

OYSTER CREEK GENERATING STATION
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TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	Pasquill Category G
ELEVATION:	380 foot

Wind Direction	Wind Speed (mph) at 380 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	4	3	15	20	6	3	51
NNE	1	7	8	11	2	1	30
NE	2	8	18	13	3	4	48
ENE	0	3	12	5	4	1	25
E	1	0	4	10	0	1	16
ESE	4	6	4	0	3	0	17
SE	2	9	11	1	0	1	24
SSE	2	2	9	1	0	0	14
S	0	11	13	5	1	0	30
SSW	2	6	22	5	6	2	43
SW	0	4	26	17	7	10	64
WSW	7	5	15	26	19	15	87
W	3	6	13	14	19	9	64
WNW	3	6	21	17	18	9	74
NW	5	5	20	38	13	5	86
NNW	2	2	16	24	10	2	56
VARIABLE	0	0	0	0	0	0	0
TOTAL	38	83	227	207	111	63	729
Periods of Calm (hours):	0						Hours
Hours of missing data (Total):	32						Hours

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

OYSTER CREEK GENERATING STATION
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TABLE 4A (cont.)
HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD:	January 1, 2002 through December 31, 2002
STABILITY CLASS:	All Pasquill Categories
ELEVATION:	380 foot

Wind Direction	Wind Speed (mph) at 380 foot level						Total
	1 - 3	4 - 7	8 - 12	13 - 18	19 - 24	> 24	
N	29	57	139	188	66	10	489
NNE	19	55	92	81	13	7	267
NE	28	43	105	115	83	50	424
ENE	24	40	97	107	67	46	381
E	9	42	99	79	41	19	289
ESE	10	64	104	67	12	5	262
SE	8	70	137	52	10	8	285
SSE	9	48	141	107	21	4	330
S	7	52	156	218	54	26	513
SSW	26	32	153	318	237	77	843
SW	17	30	135	275	242	86	785
WSW	37	29	126	226	230	77	725
W	31	38	134	270	221	86	780
WNW	63	39	123	228	258	151	862
NW	29	34	147	276	245	133	864
NNW	18	30	132	242	168	39	629
VARIABLE	0	0	0	0	0	0	0
TOTAL	364	703	2020	2849	1968	824	8728
Periods of Calm (hours):	0		Hours				
Hours of missing data (Total):	32		Hours				

^a The total number of hours of each category of wind direction for the indicated period of record, stability class and elevation

OYSTER CREEK GENERATING STATION
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
 TABLE 3B (cont.)
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

Waste Stream - Spent Resins, Filters, and Filter Sludge

Period of Performance: January 1, 2002 through December 31, 2002

Waste Class	Volume Shipped		Activity Shipped (Curies)	Percent Error (Percent)
	(Ft ³)	(M ³)		
A	0.0	0.0	0.0	
B	0.0	0.0	0.0	
C	0.0	0.0	0.0	
All	0.0	0.0	0.0	

OYSTER CREEK GENERATING STATION
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
 TABLE 3B (CONT.)
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

Waste Stream - Dry Activated Waste Shipped To An Offsite Waste Processor
Period of Performance: January 1, 2002 through December 31, 2002

Waste Class	Volume Shipped		Activity Shipped (Curies)	Percent Error (Percent)
	(Ft ³)	(M ³)		
A	52100	1475.5	1.07E-01	+/- 25 %
B	0.0	0.0	0.00E+00	
C	0.0	0.0	0.00E+00	
All	52100	1475.5	1.07E-01	+/- 25 %

OYSTER CREEK GENERATING STATION
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
 TABLE 3B (CONT.)
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

Waste Stream - Irradiated Components
Period of Performance: January 1, 2002 through December 31, 2002

Waste Class	Volume Shipped		Activity Shipped (Curies)	Percent Error (Percent)
	(Ft ³)	(M ³)		
A	0.0	0.0	0.0	
B	0.0	0.0	0.0	
C	0.0	0.0	0.0	
All	0.0	0.0	0.0	

OYSTER CREEK GENERATING STATION
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
 TABLE 3B (CONT.)
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

Waste Stream - Other Waste
Period of Performance: January 1, 2002 through December 31, 2002

Waste Class	Volume Shipped		Activity Shipped (Curies)	Percent Error (Percent)
	(Ft ³)	(M ³)		
A	843.0	23.9	5.22E+00	+/- 25 %
B	0.0	0.0	0.00E+00	
C	0.0	0.0	0.00E+00	
All	843.0	23.9	5.22E+00	+/- 25 %

OYSTER CREEK GENERATING STATION
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TABLE 3B
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

Waste Stream - Summary Of All Wastes

Period of Performance: January 1, 2002 through December 31, 2002

Waste Class	Volume Shipped		Activity Shipped (Curies)	Percent Error (Percent)
	(Ft ³)	(M ³)		
A	52943.0	1499.3	5.33E+00	+/- 25 %
B	0.0	0.0	0.00E+00	
C	0.0	0.0	0.00E+00	
All	52943.0	1499.3	5.33E+00	+/- 25 %

OYSTER CREEK GENERATING STATION
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TABLE 3B (cont.)
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

Estimate of Major Nuclide Composition - Spent Resins, Filters, and Filter Sludge
Period of Performance: January 1, 2002 through December 31, 2002

Waste Class: A

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

N		
O		
N		
E		
S		
H		
I		
P		
P		
E		
D		
Total	N/A	N/A

Waste Class: B

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

N		
O		
N		
E		
S		
H		
I		
P		
P		
E		
D		
Total	N/A	N/A

Waste Class

Nuclide	Activity (Curies)
---------	----------------------

N	
O	
N	
E	
S	
H	
I	
P	
P	
E	
D	
Total	N/A

Waste Class: All

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

N		
O		
N		
E		
S		
H		
I		
P		
P		
E		
D		
Total	N/A	N/A

Estimate of Major Nuclide Composition - Dry Activated Waste Shipped to an Offsite Waste Processor

Period of Performance: January 1, 2002 through December 31, 2002

Waste Class: A

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

Co-60	4.04E-02	3.76E+01
Fe-55	3.71E-02	3.45E+01
Cs-137	2.24E-02	2.08E+01
Mn-54	4.53E-03	4.21E+00
Cr-51	8.46E-04	7.87E-01
Ni-63	5.36E-04	4.98E-01
Cs-134	4.93E-04	4.58E-01
Zn-65	4.13E-04	3.84E-01
Ag-110m	2.27E-04	2.11E-01
Co-58	1.90E-04	1.77E-01
H-3	1.02E-04	9.48E-02
Other	3.01E-04	2.80E-01
Total	1.08E-01	1.00E+02

Waste Class: B

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

N		
O		
N		
E		
S		
H		
I		
P		
P		
E		
D		
Total	N/A	N/A

Waste Class

Nuclide	Activity (Curies)
---------	----------------------

N	
O	
N	
E	
S	
H	
I	
P	
P	
E	
D	
Total	N/A

1.02E-04
7.14E-05
8.46E-04
4.53E-03
3.71E-02
6.77E-06
1.90E-04
4.04E-02
5.47E-06
5.36E-04
4.13E-04
1.38E-05
7.01E-05
2.27E-04
6.62E-07
4.93E-04
2.24E-02
1.39E-05
8.08E-05
2.36E-08
1.45E-06
6.70E-07
3.01E-05
2.66E-06
3.77E-07
1.32E-06
1.80E-06

1.08E-01
1.07E-01
3.01E-04

Waste Class: All

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

Co-60	4.04E-02	3.76E+01
Fe-55	3.71E-02	3.45E+01
Cs-137	2.24E-02	2.08E+01
Mn-54	4.53E-03	4.21E+00
Cr-51	8.46E-04	7.87E-01
Ni-63	5.36E-04	4.98E-01
Cs-134	4.93E-04	4.58E-01
Zn-65	4.13E-04	3.84E-01
Ag-110m	2.27E-04	2.11E-01
Co-58	1.90E-04	1.77E-01
H-3	1.02E-04	9.48E-02
Other	3.01E-04	2.80E-01
Total	1.08E-01	1.00E+02

Estimate of Major Nuclide Composition - Irradiated Components

Period of Performance: January 1, 2002 through December 31, 2002

Waste Class: A

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

N		
O		
N		
E		
S		
H		
I		
P		
P		
E		
D		
Total	N/A	N/A

Waste Class: B

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

N		
O		
N		
E		
S		
H		
I		
P		
P		
E		
D		
Total	N/A	N/A

Waste Class

Nuclide	Activity (Curies)
---------	----------------------

N	
O	
N	
E	
S	
H	
I	
P	
P	
E	
D	
Total	N/A

Waste Class: All

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

N		
O		
N		
E		
S		
H		
I		
P		
P		
E		
D		
Total	N/A	N/A

OYSTER CREEK GENERATING STATION
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
 TABLE 3B (cont.)
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

Estimate of Major Nuclide Composition - Other Waste

Period of Performance: January 1, 2002 through December 31, 2002

Waste Class: A

Waste Class: B

Waste Class

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

Fe-55	1.75E+00	3.35E+01
Co-60	1.71E+00	3.28E+01
Cr-51	1.09E+00	2.09E+01
Cs-137	2.07E-01	3.97E+00
Co-58	1.91E-01	3.66E+00
Mn-54	1.52E-01	2.91E+00
Ni-63	7.41E-02	1.42E+00
Fe-59	2.78E-02	5.33E-01
Cs-134	6.71E-03	1.29E-01
Zn-65	6.58E-03	1.26E-01
Ag-110m	1.28E-03	2.45E-02
H-3	1.08E-03	2.07E-02
Sr-90	7.74E-04	1.48E-02
Other	2.33E-03	4.46E-02
Total	5.22E+00	1.00E+02

Waste Class: All

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

Fe-55	1.75E+00	3.35E+01
Co-60	1.71E+00	3.28E+01
Cr-51	1.09E+00	2.09E+01
Cs-137	2.07E-01	3.97E+00
Co-58	1.91E-01	3.66E+00
Mn-54	1.52E-01	2.91E+00
Ni-63	7.41E-02	1.42E+00
Fe-59	2.78E-02	5.33E-01
Cs-134	6.71E-03	1.29E-01
Zn-65	6.58E-03	1.26E-01
Ag-110m	1.28E-03	2.45E-02
H-3	1.08E-03	2.07E-02
Sr-90	7.74E-04	1.48E-02
Other	2.33E-03	4.46E-06
Total	5.22E+00	1.00E+02

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

N		
O		
N		
E		
S		
H		
I		
P		
P		
E		
D		
Total	N/A	N/A

Nuclide	Activity (Curies)
---------	----------------------

N	
O	
N	
E	
S	
H	
I	
P	
P	
E	
D	
Total	N/A

OYSTER CREEK GENERATING STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
TABLE 3B (cont.)
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

Estimate of Major Nuclide Composition - Other Waste
Period of Performance: January 1, 2002 through December 31, 2002

Waste Class: A

Waste Class: B

Waste Class

Nuclide	Activity (Curies)	Percent Abundance (Percent)
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Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

Nuclide	Activity (Curies)
---------	----------------------

1.08E-03
5.47E-04
1.09

1.52E-01
 1.75
 2.78E-02
 3.80E-05
 1.91E-01
 1.71
 5.18E-04
 7.41E-02
 6.58E-03
 7.08E-05
 6.74E-04
 1.98E-06
 1.70E-04
 3.21E-06
 1.28E-03
 3.62E-06
 6.71E-03
 2.07E-01
 6.70E-05
 6.71E-04
 4.60E-07
 1.23E-05
 5.18E-06
 2.69E-04
 1.93E-05
 5.23E-06
 7.55E-06
 1.68E-05
 5.22E+00 Total
 2.33E-03

Fe-55	1.75E+00	3.35E+01
Co-60	1.71E+00	3.28E+01
Cr-51	1.09E+00	2.09E+01
Cs-137	2.07E-01	3.97E+00
Co-58	1.91E-01	3.66E+00
Mn-54	1.52E-01	2.91E+00
Ni-63	7.41E-02	1.42E+00
Fe-59	2.78E-02	5.33E-01
Cs-134	6.71E-03	1.29E-01
Zn-65	6.58E-03	1.26E-01
Ag-110m	1.28E-03	2.45E-02
H-3	1.08E-03	2.07E-02
Sr-90	7.74E-04	1.48E-02
Other	2.33E-03	4.46E-02
Total	5.22E+00	1.00E+02

Waste Class: All

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

Fe-55	1.75E+00	3.35E+01
Co-60	1.71E+00	3.28E+01
Cr-51	1.09E+00	2.09E+01
Cs-137	2.07E-01	3.97E+00
Co-58	1.91E-01	3.66E+00
Mn-54	1.52E-01	2.91E+00
Ni-63	7.41E-02	1.42E+00
Fe-59	2.78E-02	5.33E-01
Cs-134	6.71E-03	1.29E-01
Zn-65	6.58E-03	1.26E-01
Ag-110m	1.28E-03	2.45E-02
H-3	1.08E-03	2.07E-02
Sr-90	7.74E-04	1.48E-02
Other	2.33E-03	4.46E-02
Total	5.22E+00	1.00E+02

N		
O		
N		
E		
S		
H		
I		
P		
P		
E		
D		
Total	N/A	N/A

N	
O	
N	
E	
S	
H	
I	
P	
P	
E	
D	
Total	N/A

OYSTER CREEK GENERATING STATION
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
 TABLE 3B (cont.)
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

Estimate of Major Nuclide Composition - Summary of All Shipments
Period of Performance: January 1, 2002 through December 31, 2002

Waste Class: A

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

Fe-55	1.79E+00	3.35E+01
Co-60	1.75E+00	3.29E+01
Cr-51	1.09E+00	2.05E+01
Cs-137	2.29E-01	4.31E+00
Co-58	1.91E-01	3.59E+00
Mn-54	1.57E-01	2.94E+00

Waste Class: B

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

N
O
N
E
S

Waste Class

Nuclide	Activity (Curies)
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N
O
N
E
S

5.33E+00

Ni-63	7.46E-02	1.40E+00
Fe-59	2.78E-02	5.22E-01
Cs-134	7.20E-03	1.35E-01
Zn-65	6.99E-03	1.31E-01
Ag-110m	1.51E-03	2.83E-02
H-3	1.18E-03	2.22E-02
Sr-90	7.74E-04	1.45E-02
Other	2.63E-03	4.93E-02
Total	5.33E+00	1.00E+02

	H	
	I	
	P	
	P	
	E	
	D	
Total	N/A	N/A

	H
	I
	P
	P
	E
	D
Total	N/A

Waste Class: All

Nuclide	Activity (Curies)	Percent Abundance (Percent)
---------	----------------------	-----------------------------------

Fe-55	1.79E+00	3.35E+01
Co-60	1.75E+00	3.29E+01
Cr-51	1.09E+00	2.05E+01
Cs-137	2.29E-01	4.31E+00
Co-58	1.91E-01	3.59E+00
Mn-54	1.57E-01	2.94E+00
Ni-63	7.46E-02	1.40E+00
Fe-59	2.78E-02	5.22E-01
Cs-134	7.20E-03	1.35E-01
Zn-65	6.99E-03	1.31E-01
Ag-110m	1.51E-03	2.83E-02
H-3	1.18E-03	2.22E-02
Sr-90	7.74E-04	1.45E-02
Other	2.63E-03	4.93E-02
Total	5.33E+00	1.00E+02

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: C

Percent Abundance (Percent)

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N/A

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∴ C

Percent
Abundance
(Percent)

N/A

∴ C

2. Augmented Offgas (AOG) Vent - The continuous recording of gross activity and the incorporation of isotopic data obtain monthly grab sample analyzed using gamma spectroscopy.
 3. Turbine Building Stack and Feedpump Room Vent - The continuous recording of gross activity and the incorporation of i data obtained from a monthly grab sample analyzed using gamma spectroscopy
- b. Iodines:
1. Stack - Filters are changed weekly and analyzed using gamma spectroscopy.
 2. Augmented Offgas (AOG) Vent - Filters are changed weekly and analyzed using gamma spectroscopy.
 3. Turbine Building Stack and Feedpump Room Vent - Filters are changed weekly and analyzed using gamma spectroscopy.
- c. Particulates:
1. Stack - Filters are changed weekly and analyzed using a low background beta counter and gamma spectroscopy.
 2. Augmented Offgas (AOG) Vent - Filters are changed weekly and analyzed using gamma spectroscopy.
 3. Turbine Building Stack and Feedpump Room Vent - Filters are changed weekly and analyzed using gamma spectroscopy.
- d. Liquid effluents:
- Analysis per batch release using gamma spectrometry with a germanium detector, a low background beta counter, and a liqui counter.

5. Batch Releases

- a. Liquid
1. Number of batch releases: No releases
 2. Total time period for batch releases: N/A
 3. Maximum time period for a batch release: N/A
 4. Average time period for batch releases: N/A
 5. Minimum time period for a batch release: N/A
 6. Average stream flow during periods of release of effluent into a flowing stream: N/A
- b. Gaseous
1. Number of batch releases: No releases
 2. Total time period for batch release: N/A
 3. Maximum time period for a batch release: N/A
 4. Average time period for batch releases: N/A
 5. Minimum time period for a batch release: N/A

6. Abnormal releases

- a. Liquid
1. Number of releases: None
 2. Total activity released: N/A
- b. Gaseous
1. Number of releases: None
 2. Total activity released: N/A

OYSTER CREEK GENERATING STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 2002
TABLE 1
ANNUAL OFFSITE DOSES DUE TO RADIONUCLIDES IN EFFLUENTS
January 1, 2002 through December 31, 2002

Reference	ODCM	ODCM	ODCM	ODCM	ODCM	ODCM	ODCM
	4.6.1.1.4.A	4.6.1.1.4.A	4.6.1.1.5.A	4.6.1.1.5.A	4.6.1.1.5.B	4.6.1.1.6.A	4.6.1.1.6
	Liquid Total Body	Liquid GI Tract	Noble Gas Total Body	Noble Gas Skin	H-3, Iodines, & Particulates Thyroid	Noble Gas Gamma Dose	Noble G. Beta Do
	mrem	mrem	mrem	mrem	mrem	mRad	mRad
ODCM Limit	3.0 mrem/year	10.0 mrem/year	500 mrem/year	3000 mrem/year	1500 mrem/year	10 mRad/year	20 mRad/yr
2002 Dose	N/A mrem	N/A mrem	1.76E-03 mrem	2.61E-03 mrem	* mrem	4.94E-03 mrem	1.88E-0 mrem
Percent of Limit	N/A Percent	N/A Percent	3.52E-04 Percent	8.70E-05 Percent	* Percent	4.94E-02 Percent	9.40E-0 Percent

Reference	ODCM	ODCM
	4.6.1.1.8.A	4.6.1.1.8.A
	All Effluents Total Body	All Effluents Thyroid
	mrem	mrem
ODCM Limit	25 mrem/year	75 mrem/year

2002 Dose	*	*
	mrem	mrem
Percent of Limit	*	*
	Percent	Percent

* Sr-89 & 90 data not yet received - An addendum will be issued once the data are received

Y, L.L.C.

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in particulate
the dose
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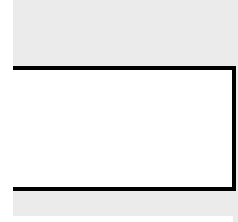
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quarter or

oute 9 bridge
Table II, Column 2.

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A shall not exceed:

stricted



mposition:

sample

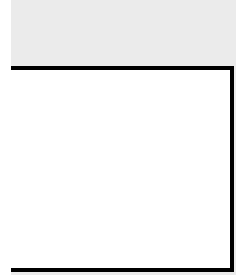
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4	ODCM
3.A	4.6.1.1.7.A
ias ose	I-131, I-133, & Particulates Thyroid mrem
l year	15 mrem/year
03	*
l	mrem
03	*
it	Percent

