

YANKEE ATOMIC ELECTRIC COMPANY

ROWE, MASSACHUSETTS

EFFLUENT AND WASTE DISPOSAL

SEMI-ANNUAL REPORT

JAN - JUNE 1980

8009180 355

Effluent And Waste Disposal Quarterly Report

Gaseous Effluents - Summation All Releases

Table IA 1980

	Unit	January	February	March	Quarter (1)
Seconds During Period	Secs.	2.42E06	2.42E06	3.02E06	7.86E06
Fission & Activation Gases					
Total Release	Ci	1.45E01	2.11E00	5.93E-04	1.66E01
Average Release Rate For Period	uCi/sec	5.97E00	8.71E-01	1.96E-04	2.10E00
Percent Of Technical Specification Limit	%	4.70E-01	2.23E-02	8.84E-06	1.56E-01
Iodines					
Total Iodine - 131	Ci	1.61E-05	4.45E-05	< 2.23E-06	6.06E-05
Ave. Release Rate For Period	uCi/sec	6.65E-06	1.84E-05	< 7.38E-07	7.71E-06
Percent Of Technical Specification Limit	%	3.39E-01	9.84E-01	< 4.00E-02	4.07E-01
Particulates					
Total Gross (α, β, γ)	Ci	5.61E-07	5.99E-06	1.05E-07	6.66E-06
Particulates With Half-Life > 8 Days	Ci	2.83E-07	3.62E-06	2.36E-07	4.14E-06
Ave. Release Rate For Period *	uCi/sec	1.17E-07	1.50E-06	7.81E-08	5.26E-07
Percent Of Technical Specification Limit	%	1.88E-02	2.77E-02	1.13E-02	1.80E-02
Gross Alpha Radioactivity	Ci	3.89E-09	< 1.45E-08	< 1.49E-08	3.89E-09
Tritium					
Total Release	Ci	4.67E-01	7.71E-02	1.86E-01	7.30E-01
Ave. Release Rate For Period	uCi/sec	1.93E-01	3.19E-02	6.16E-02	9.29E-02
Percent Of Technical Specification Limit	Ci	7.03E-03	1.22E-03	2.38E-03	3.51E-03

* Applies to particulates with half-lives > 8 Days
Maximum Gross Radioactivity Release Rate:

January 20, 1980 (1830) - 1.20E03 uCi/sec
February 15, 1980 (0530) - 1.72E01 uCi/sec
March, 1980 - < 1.70E01 uCi/sec

EFFLUENT AND WASTE DISPOSAL

GASEOUS EFFLUENTS

1980

Nuclides Released	Unit	January	February	March	(1) Quarter
Fission Gases					
Krypton-85	Ci	1.34E-02	1.40E-03	3.28E-04	1.51E-02
Krypton-85M	Ci	1.21E-01	<4.16E-04	< 1.52E-07	1.21E-01
Krypton-87	Ci	1.09E-01	<3.74E-04	< 1.80E-06	1.09E-01
Krypton-88	Ci	1.72E-01	<5.91E-04	< 2.60E-06	1.72E-01
Xenon-133	Ci	8.50E00	1.62E00	< 1.52E-04	1.01E01
Xenon-135	Ci	2.21E00	< 7.25E-03	< 8.86E-07	2.21E00
Xenon-135M	Ci	2.48E00	< 8.52E-03	< 1.32E-06	2.48E00
Xenon-138	Ci	4.79E-02	< 1.64E-04	< 2.57E-06	4.79E-02
Others (Specify)	Ci	--	--	--	--
Xenon-133M	Ci	1.34E-02	< 4.40E-05	< 8.30E-06	1.34E-02
Argon-37	Ci	3.32E-01	1.05E-03	1.22E-04	3.33E-01
Argon-41	Ci	2.10E-01	< 7.22E-04	< 1.16E-06	2.10E-01
Carbon-14	Ci	1.29E-02	6.08E-04	1.43E-04	1.36E-02
Xenon-131M	Ci	2.32E-01	4.84E-01	< 5.14E-04	7.16E-01
Unidentified	Ci	--	--	--	--
Total for Period	Ci	1.45E01	2.11E00	5.93E-04	1.66E01
Iodines					
Iodine-131	Ci	1.61E-05	4.45E-05	< 2.23E-06	6.06E-05
Iodine-133	Ci	< 2.19E-06	< 7.56E-06	< 2.26E-06	< 1.20E-05
Iodine-135	Ci	< 4.47E-06	< 1.07E-05	< 3.73E-06	< 1.89E-05
Total for Period	Ci	1.61E-05	4.45E-05	< 8.22E-06	6.06E-05
Tritium	Ci	4.67E-01	7.71E-02	1.86E-01	7.30E-01
Particulates					
Strontium-89	Ci	1.62E-08	1.54E-08	1.90E-08	5.06E-08
Strontium-90	Ci	5.28E-09	5.02E-09	6.20E-09	1.65E-08
Cesium-134	Ci	< 1.30E-07	6.07E-07	< 1.27E-07	6.07E-07
Cesium-137	Ci	< 1.72E-07	7.78E-07	< 1.19E-07	7.78E-07
Barium-Lanthanum-140	Ci	< 5.67E-07	< 4.30E-07	< 3.87E-07	< 2.17E-06
Others (Specify)	Ci	--	--	--	--
Cobalt-58	Ci	< 1.60E-07	1.86E-07	< 1.12E-07	1.86E-07
Cobalt-60	Ci	2.62E-07	9.36E-07	2.11E-07	1.41E-06
Iron-59	Ci	< 3.39E-07	< 2.58E-07	< 2.34E-07	< 8.31E-07
Chromium-51	Ci	< 1.23E-06	< 8.94E-07	< 8.39E-07	< 2.96E-06
Zirconium-Niobium 95	Ci	< 2.78E-07	< 2.03E-07	< 1.97E-07	< 6.78E-07
Cerium-141	Ci	< 2.10E-07	< 1.53E-07	< 1.46E-07	< 5.09E-07
Cerium-144	Ci	< 9.95E-07	< 7.19E-07	< 6.79E-07	< 2.39E-06
Antimony-124	Ci	< 2.31E-07	< 1.59E-07	< 1.67E-07	< 5.57E-07
Manganese-54	Ci	< 1.69E-07	1.09E-06	< 1.20E-07	1.09E-06
Silver-110M	Ci	< 2.42E-07	< 1.85E-07	< 1.74E-07	< 6.01E-07
Total for Period	Ci	2.83E-07	3.62E-06	2.36E-07	4.14E-06

YANKEE ATOMIC ELECTRIC COMPANY, ROWE, MASS.
EFFLUENT AND WASTE DISPOSAL QUARTERLY REPORT
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

TABLE 2A
1980

Unit	January	February	March	Quarter
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ission and activation products

Total release (not including tritium, gases, alpha)	Ci	1.41E-03	2.70E-03	1.31E-03	5.42E-03
Average diluted concentration during period	uCi/ml	9.96E-11	9.52E-10	2.04E-09	3.06E-10
Percent of Applicable Limit	%	1.12E-02	9.03E-02	3.14E-02	2.44E-02

Tritium

Total Release	Ci	1.07E01	6.19E00	1.67E01	3.36E01
Average diluted concentration during period	uCi/ml	7.53E-07	2.19E-06	2.60E-05	1.90E-06
Percent of applicable limit	%	2.51E-02	7.29E-02	8.66E-01	6.33E-02

Dissolved and entrained gases

Total Release	Ci	1.81E-02	1.97E-02	1.22E-03	3.90E-02
Average diluted concentration during period	uCi/ml	1.27E-09	6.96E-09	1.90E-09	2.20E-09
Percent of applicable limit	%	4.73E-02	2.32E-01	6.33E-02	7.34E-02

Gross Alpha radioactivity

Total Release	Ci	2.97E-08	1.66E-08	5.26E-08	9.89E-08
Alpha Average Concentration	uCi/ml	2.09E-15	5.86E-15	8.19E-14	5.59E-15
Volume of waste released (prior to dilution)	Liters	1.89E06	9.82E05	3.91E05	3.26E06
Volume of dilution water (used during period)	liters	1.42E10	2.83E09	6.42E08	1.77E10

Maximum Concentration (B , γ) Released To Unrestricted Area

January 18, 1980 (0600) = 5.61E-10 uCi/ml
 February 11, 1980 (0500) = 6.16E-09 uCi/ml
 March 20, 1980 (1630) = 1.80E-09 uCi/ml

YANKEE ATOMIC ELECTRIC COMPANY-ROWE, MASS.
 EFFLUENT AND WASTE DISPOSAL QUARTERLY REPORT
 LIQUID EFFLUENTS

TABLE 2B

1980

Nuclides Released	Unit	January	February	March	Quarter (1)
Strontium-89	Ci	1.34E-05	7.90E-06	2.34E-05	4.47E-05
Strontium-90	Ci	2.92E-08	1.02E-07	<2.34E-06	1.31E-07
Cesium-134	Ci	8.60E-05	4.52E-04	1.66E-04	7.04E-04
Cesium-137	Ci	1.40E-04	7.14E-04	2.04E-04	1.06E-03
Iodine-131	Ci	3.43E-04	7.03E-04	4.31E-05	1.09E-03

Cobalt-58	Ci	<2.12E-06	2.29E-05	2.42E-05	4.71E-05
Cobalt-60	Ci	6.33E-06	3.74E-05	4.77E-05	9.14E-05
Iron-59	Ci	<4.73E-06	<5.25E-06	<8.70E-06	<1.87E-05
Zinc-65	Ci	<6.08E-06	<5.99E-06	<9.55E-06	<2.16E-05
Manganese-54	Ci	6.21E-07	1.48E-04	1.10E-04	2.59E-04
Chromium-51	Ci	<2.24E-05	<3.72E-05	<4.15E-05	<1.01E-04

Zirconium-Niobium-95	Ci	<4.11E-06	<5.56E-06	<7.91E-06	<1.76E-05
Molybdenum-99	Ci	<1.60E-05	<2.11E-05	<3.07E-05	<6.78E-05
Technetium-99M	Ci	1.41E-06	<2.80E-06	<3.34E-06	1.41E-06
Barium-Lanthanum-140	Ci	<9.55E-06	2.41E-05	<2.07E-05	2.41E-05
Cerium-141	Ci	<3.43E-06	<4.65E-06	<5.49E-06	<1.36E-05

Other (Specify)	Ci	-	-	-	-
Iodine-133	Ci	3.44E-04	<4.66E-06	<5.48E-06	3.44E-04
Selenium-75	Ci	<3.30E-06	<5.22E-06	<5.93E-06	<1.44E-05
Silver-110M	Ci	<3.35E-06	<3.99E-06	<6.52E-06	<1.39E-05
Antimony-124	Ci	<3.07E-06	<2.76E-06	<5.20E-06	<1.10E-05
Carbon-14	Ci	4.72E-04	5.75E-04	6.90E-04	1.74E-03
Cerium-144	Ci	<1.58E-05	<2.10E-05	<5.49E-06	<4.23E-05
Unidentified	Ci	7.55E-06	1.10E-05	<1.91E-07	1.85E-05

Total for Period (above)	Ci	1.41E-03	2.70E-03	1.31E-03	5.42E-03
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Xenon-133	Ci	1.81E-02	1.97E-02	1.22E-03	3.90E-02
Xenon-135	Ci	<7.58E-05	<4.28E-05	<1.30E-04	<2.49E-04

Tritium	Ci	1.07E01	6.19E00	1.67E01	3.36E01
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YANKLE ATOMIC ELECTRIC COMPANY-ROWE, MASS.

SOLID WASTE SHIPMENT REPORT

1980

Evaporator Bottoms	January	February	March	Quarter (1)
ft. ³	8.93E02	--	--	8.93E02
Ci	2.10E-01	--	--	2.10E-01

Dry Compressible Waste	January	February	March	Quarter (1)
ft. ³	1.12E03	--	--	1.12E03
Ci	3.69E-01	--	--	3.69E-01

Decontamination Soln.	January	February	March	Quarter ()
ft. ³				
Ci				

Other:	January	February	March	Quarter ()
ft. ³				
Ci				

Solid Waste Disposition

<u>No. of Shipments</u>	<u>Dates</u>	<u>Trans. Mode</u>	<u>Destination</u>
3	Jan. 9, 1980	Truck	Beatty, N.C.
	Jan. 16, & 18, 1980	"	Barnwell, S.C.

Effluent And Waste Disposal Quarterly Report
Gaseous Effluents - Summation All Releases

Table 1A

1980

	Unit	April	May	June	Quarter (2)
Seconds During Period	Secs.	2.42E06	2.42E06	3.02E06	7.86E06
Fission & Activation Gases					
Total Release	Ci	<9.08E-04	<8.66E-04	3.15E-02	3.15E-02
Average Release Rate For Period	uCi/sec	<3.75E-04	<3.58E-04	1.04E-02	4.01E-03
Percent Of Technical Specification Limit	%	<3.05E-05	<2.08E-05	1.12E-04	6.23E-05
Iodines					
Total Iodine - 131	Ci	<1.39E-06	<2.11E-06	<2.78E-06	<6.28E-06
Ave. Release Rate For Period	uCi/sec	<5.74E-07	<8.72E-07	<9.20E-07	<7.99E-07
Percent Of Technical Specification Limit	%	4.08E-02	4.24E-02	3.77E-02	3.99E-02
Particulates					
Total Gross (α, β, γ)	Ci	3.90E-06	4.51E-07	3.40E-06	7.75E-06
Particulates With Half-Life > 8 Days	Ci	3.11E-06	6.34E-08	2.56E-06	5.74E-06
Ave. Release Rate For Period *	uCi/sec	1.29E-06	2.62E-08	8.48E-07	7.30E-07
Percent Of Technical Specification Limit	%	2.89E-02	1.36E-02	2.31E-02	1.97E-02
Gross Alpha Radioactivity	Ci	<1.02E-08	<1.52E-08	<1.82E-08	<4.36E-08
Tritium					
Total Release	Ci	8.29E-02	1.06E-01	1.41E-01	3.30E-01
Ave. Release Rate For Period	uCi/sec	3.42E-02	4.38E-02	4.67E-02	4.20E-02
Percent Of Technical Specification Limit	%	1.74E-03	1.52E-03	1.37E-03	1.50E-03

* Applies to particulates with half-lives > 8 Days
Maximum Gross Radioactivity Release Rate:

April, 1980 - <1.70E01 uCi/sec.

May, 1980 - <1.70E01 uCi/sec.

June, 1980 - <1.70E01 uCi/sec.

EFFLUENT AND WASTE DISPOSAL

GASEOUS EFFLUENTS

Nuclides Released	Unit	April	May	June	Quarter
Fission Gases					
Krypton-85	Ci	< 3.00E-04	< 3.00E-04	9.28 E-03	9.28E-03
Krypton-85M	Ci	< 6.00E-06	< 6.00E-06	< 6.00E-06	< 1.80E-05
Krypton-87	Ci	< 5.45E-06	< 5.45E-06	< 5.45E-06	< 1.63E-05
Krypton-88	Ci	< 8.60E-06	< 8.60E-06	< 8.60E-06	< 2.58E-05
Xenon-133	Ci	< 1.68E-04	< 1.68E-04	< 2.38E-05	2.38E-05
Xenon-135	Ci	< 1.05E-05	< 1.05E-05	< 1.05E-05	< 3.15E-05
Xenon-135M	Ci	< 1.24E-04	< 1.24E-04	< 1.24E-04	< 3.72E-04
Xenon-138	Ci	< 2.39E-06	< 2.39E-06	< 2.39E-06	< 7.17E-06
Others (Specify)	Ci	--	--	--	--
Xenon-133M	Ci	< 6.40E-07	< 6.40E-07	< 6.40E-07	< 1.92E-06
Argon-37	Ci	< 5.59E-05	< 1.41E-05	8.68E-04	8.68E-04
Argon-41	Ci	< 1.05E-05	< 1.05E-05	< 1.05E-05	< 3.15E-05
Carbon-14	Ci	< 1.30E-04	< 1.30E-04	2.13E-02	2.13E-02
Xenon-131M	Ci	< 8.57E-05	< 8.57E-05	4.87E-05	4.87E-05
Unidentified	Ci	--	--	--	--
Total for Period	Ci	< 9.08E-04	< 8.66E-04	3.15E-02	3.15E-02
Iodines					
Iodine-131	Ci	< 1.39E-06	< 2.11E-06	< 2.78E-06	< 6.28E-06
Iodine-133	Ci	< 1.40E-06	< 2.10E-06	< 2.81E-06	< 6.31E-06
Iodine-135	Ci	< 2.10E-06	< 3.15E-06	< 4.21E-06	< 9.46E-06
Total for Period	Ci	< 4.89E-06	< 7.36E-06	< 9.80E-06	< 2.20E-05
Tritium	Ci	8.29E-02	1.06E-01	1.41E-01	3.30E-01
Particulates					
Strontium-89	Ci	3.76E-08	5.50E-08	8.14E-08	1.74E-07
Strontium-90	Ci	5.76E-09	8.42E-09	1.25E-08	2.67E-08
Cesium-134	Ci	5.27E-07	< 1.34E-07	< 2.73E-07	5.27E-07
Cesium-137	Ci	7.12E-07	< 1.32E-07	< 2.74E-07	7.12E-07
Barium-Lanthanum-140	Ci	< 3.01E-07	< 4.32E-07	< 9.25E-07	< 1.66E-06
Others (Specify)	Ci	--	--	--	--
Cobalt-58	Ci	< 8.31E-08	< 1.23E-07	7.89E-07	7.89E-07
Cobalt-60	Ci	6.47E-07	< 1.46E-07	1.03E-06	1.68E-06
Iron-59	Ci	< 1.82E-07	< 2.60E-07	< 5.46E-07	< 9.88E-07
Chromium-51	Ci	< 6.44E-07	< 9.44E-07	< 1.93E-06	< 3.52E-06
Zirconium-Niobium 95	Ci	< 1.47E-07	< 2.16E-07	< 4.25E-07	< 7.88E-07
Cerium-141	Ci	< 1.10E-07	< 1.63E-07	< 3.36E-07	< 6.09E-07
Cerium-144	Ci	< 5.16E-07	< 7.64E-07	< 1.58E-06	< 2.86E-06
Antimony-124	Ci	< 1.20E-07	< 1.79E-07	< 3.85E-07	< 6.84E-07
Manganese-54	Ci	1.18E-06	< 1.36E-07	6.52E-07	1.83E-06
Silver-110M	Ci	< 1.29E-07	< 1.95E-07	< 3.97E-07	< 7.21E-07
Total for Period	Ci	3.11E-06	6.34E-08	2.56E-06	5.74E-06

YANKEE ATOMIC ELECTRIC COMPANY, ROWE, MASS.
 EFFLUENT AND WASTE DISPOSAL QUARTERLY REPORT
 LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

TABLE 2A

1980

1980

Unit	April	May	June	(2) Quarter
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ission and activation products

Total release (not including tritium, gases, alpha)	Ci	2.77E-03	3.62E-05	6.02E-04	3.43E-03
Average diluted concentration during period	µCi/ml	4.93E-09	6.61E-11	1.26E-09	2.16E-09
Percent of Applicable Limit	%	4.87E-02	6.24E-03	2.63E-02	2.65E-02

Tritium

Total Release	Ci	1.46E00	1.22E-01	1.51E00	3.09E00
Average diluted concentration during period	µCi/ml	2.59E-06	2.23E-07	3.16E-06	1.94E-06
Percent of applicable limit	%	8.63E-02	7.43E-03	1.05E-01	6.47E-02

Dissolved and entrained gases

Total Release	Ci	<1.52E-04	<3.18E-05	<1.42E-04	<3.26E-04
Average diluted concentration during period	µCi/ml	<2.70E-10	<5.80E-11	<2.98E-10	<2.05E-10
Percent of applicable limit	%	<9.00E-03	<1.93E-03	<9.93E-03	<6.83E-03

Gross Alpha radioactivity

Total Release	Ci	<3.37E-08	<4.35E-09	<1.78E-08	<5.58E-08
Alpha Average Concentration	µCi/ml	<5.98E-14	<7.94E-15	<3.73E-14	<3.51E-14
Volume of waste released (prior to dilution)	Liters	5.22E05	2.81E05	2.34E05	1.04E06

Volume of dilution water (used during period)	liters	5.63E08	5.48E08	4.77E08	1.59E09
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Maximum Concentration (β , γ) Released To Unrestricted Area
 April 7, 1980 (1345) - 2.79E-08 µCi/ml
 May 27, 1980 (1000) - 4.90E-08 µCi/ml
 June 25, 1980 (1820) - 7.09E-08 µCi/ml

EFFLUENT AND WASTE DISPOSAL QUARTERLY REPORT

LIQUID EFFLUENTS - TABLE 2B

1980

Nuclides Released	Unit	April	May	June	Quarter (2)
Strontium-89	Ci	2.28E-05	5.88E-06	2.41E-05	5.28E-05
Strontium-90	Ci	1.79E-05	4.61E-06	1.89E-05	4.14E-05
Cesium-134	Ci	9.26E-04	3.31E-06	1.92E-04	1.12E-03
Cesium-137	Ci	1.24E-03	4.54E-06	2.81E-04	1.52E-03
Iodine-131	Ci	5.26E-06	< 8.46E-07	< 3.18E-06	5.26E-06

Cobalt-58	Ci	7.21E-05	7.31E-07	3.74E-06	7.66E-05
Cobalt-60	Ci	1.50E-04	2.64E-06	2.07E-05	1.73E-04
Iron-59	Ci	< 8.85E-06	< 1.81E-06	< 4.50E-06	< 1.52E-05
Zinc-65	Ci	< 9.75E-06	< 2.11E-06	< 5.05E-06	< 1.69E-05
Manganese-54	Ci	3.41E-04	6.88E-06	3.49E-05	3.83E-04
Chromium-51	Ci	< 4.88E-05	< 6.89E-06	< 2.45E-05	< 8.02E-05

Zirconium-Niobium-95	Ci	< 8.48E-06	< 1.47E-06	< 4.04E-06	< 1.40E-05
Molybdenum-99	Ci	< 3.28E-05	< 5.76E-06	< 1.74E-05	< 5.60E-05
Technetium-99M	Ci	< 3.36E-06	< 6.77E-07	< 1.84E-06	< 5.88E-06
Barium-Lanthanum-140	Ci	< 2.53E-05	< 3.16E-06	< 1.23E-05	< 4.08E-05
Cerium-14	Ci	< 5.53E-06	< 1.11E-06	< 3.02E-06	< 9.66E-06

Other (Specify)	Ci	--	--	--	--
Iodine-133	Ci	< 6.80E-06	< 8.43E-07	< 3.24E-06	< 1.09E-05
Selenium-75	Ci	< 6.77E-06	< 1.02E-06	< 3.41E-06	< 1.12E-05
Silver-110M	Ci	< 6.42E-06	< 1.32E-06	< 3.35E-06	< 1.11E-05
Antimony-124	Ci	< 3.65E-06	< 1.15E-06	< 2.00E-06	< 6.80E-05
Carbon-14	Ci	2.50E-05	6.45E-06	2.65E-05	5.79E-05
Cerium-144	Ci	< 2.53E-05	< 5.09E-06	< 1.38E-05	< 4.42E-05
Unidentified	Ci	4.33E-07	1.16E-06	< 1.96E-07	1.59E-06

Total for Period (above)	Ci	2.77E-03	3.62E-05	6.02E-04	3.43E-03
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Xenon-133	Ci	< 8.87E-05	< 1.85E-05	< 8.31E-05	< 1.90E-05
Xenon-135	Ci	< 6.33E-05	< 1.33E-05	< 5.91E-05	< 1.36E-04

Tritium	Ci	1.46E00	1.22E-01	1.51E00	3.09E00
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YANKLEE ATOMIC ELECTRIC COMPANY-ROWE, MASS.

SOLID WASTE SHIPMENT REPORT

1980

Evaporator Bottoms	April	May	June	Quarter (2)
ft. ³	-	3.30E02	3.22E02	6.52E02
Ci	-	4.01E-01	3.21E-01	7.22E-01

Dry Compressible Waste	April	May	June	Quarter (2)
ft. ³	9.20E02	2.30E02	--	1.15E02
Ci	2.96E-01	1.80E-02	--	3.14E-01

Decontamination Soln.	April	May	June	Quarter ()
ft. ³				
Ci				

Other:	April	May	June	Quarter ()
ft. ³				
Ci				

Solid Waste Disposition

<u>No. of Shipments</u>	<u>Dates</u>	<u>Trans. Mode</u>	<u>Destination</u>
1	April 28	Truck	Barnwell, S. C.
1	May 28	Truck	" "
1	June 25	Truck	" "
			" "