

YANKEE ATOMIC ELECTRIC COMPANY

ROWE, MASSACHUSETTS

EFFLUENT AND WASTE DISPOSAL

SEMI-ANNUAL REPORT

JANUARY - JUNE 1979

8007210405:

YANKEE ATOMIC ELECTRIC COMPANY, ROWE, MASS.  
 Effluent And Waste Disposal Quarterly Report  
 Gaseous Effluents - Summary on All Releases

Table 1A

1979

	Unit	Jan.	Feb.	Mar.	Quarter ( 1 )
Seconds During Period	Secs.	2.42E06	2.42E06	2.42E06	7.26E06
<b>Fission &amp; Activation Gases</b>					
Total Release	Ci	5.81E00	6.23E00	3.91E01	5.11E01
Average Release Rate For Period	uCi/sec	2.40E00	2.57E00	1.62E01	7.04E00
Percent Of Technical Specification Limit	%	2.41E-01	1.65E-01	7.45E-01	3.85E-01
<b>Iodines</b>					
Total Iodine - 131	Ci	<9.23E-07	9.19E-06	1.31E-04	1.40E-04
Ave. Release Rate For Period	uCi/sec	3.81E-07	3.80E-06	5.32E-05	1.93E-05
Percent Of Technical Specification Limit	%	2.75E-02	2.60E-01	3.72E00	1.34E00
<b>Particulates</b>					
Total Gross ( B , Y )	Ci	6.87E-07	4.50E-07	4.67E-06	5.81E-06
Particulates With Half-Life > 8 Days	Ci	1.65E-06	3.81E-06	5.68E-06	1.11E-05
Ave. Release Rate For Period *	uCi/sec	6.83E-07	1.58E-06	2.35E-06	1.54E-06
Percent Of Technical Specification Limit	%	2.20E-02	3.11E-02	3.95E-02	3.00E-02
Gross Alpha Radioactivity	Ci	< 8.11E-09	< 8.92E-09	< 1.04E-08	< 2.74E-08
<b>Tritium</b>					
Total Release	Ci	1.15E-01	2.49E-01	3.48E-01	7.12E-01
Ave. Release Rate For Period	uCi/sec	4.75E-02	1.03E-01	1.43E-01	9.81E-02
Percent Of Technical Specification Limit	%	2.44E-03	5.05E-03	7.05E-03	4.89E-03

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

January 24, 1979 (0835) - 3.10E01 uCi/sec  
 February 27, 1979 (0715) - 2.06E03 uCi/sec  
 March 7, 1979 (0820) - 2.70E02 uCi/sec

YANKEE ATOMIC ELECTRIC COMPANY, ROWE, MASS. - TABLE 1B  
 EFFLUENT AND WASTE DISPOSAL  
 GASEOUS EFFLUENTS (1979)

Nuclides Released	Unit	January	February	March	Quarter(1)
<b>Fission Gases</b>					
Krypton-85	Ci	2.47E-03	5.23E-03	4.47E-02	5.24E-02
Krypton-85M	Ci	7.01E-02	8.63E-02	9.44E-02	2.51E-01
Krypton-87	Ci	4.23E-02	5.53E-02	4.77E-02	1.45E-01
Krypton-88	Ci	1.03E-01	1.27E-01	1.19E-01	3.49E-01
Xenon-133	Ci	3.81E00	4.54E00	3.19E01	4.02E01
Xenon-135	Ci	8.63E-01	1.12E00	1.16E00	3.14E00
Xenon-135M	Ci	7.56E-01	5.53E-02	1.02E00	1.83E00
Xenon-138	Ci	1.04E-02	7.48E-03	1.70E-02	3.49E-02
Others (Specify)	Ci	--	--	--	--
Xenon-133M	Ci	6.40E-02	9.58E-02	3.01E-01	4.61E-01
Argon-37	Ci	1.11E-02	5.22E-03	1.59E00	1.61E00
Argon-41	Ci	6.49E-02	7.93E-02	5.92E-01	7.36E-01
Carbon-14	Ci	6.10E-04	7.35E-04	6.23E-03	7.57E-03
Xenon-131M	Ci	1.23E-02	4.91E-02	2.22E00	2.28E00
Unidentified	Ci	--	--	--	--
Total for Period	Ci	5.81E00	6.23E00	3.91E01	5.11E01

<b>Iodines</b>					
Iodine-131	Ci	<9.23E-07	9.19E-06	1.31E-04	1.40E-04
Iodine-133	Ci	6.59E-06	1.82E-05	<2.10E-06	2.48E-05
Iodine-135	Ci	8.96E-06	2.20E-05	<2.96E-06	3.10E-05
Total for Period	Ci	1.55E-05	4.94E-05	1.31E-04	1.96E-04

Tritium	Ci	1.15E-01	2.49E-01	3.48E-01	7.12E-01
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<b>Particulates</b>					
Strontium-89	Ci	<2.15E-08	<2.26E-08	<2.25E-08	<6.66E-08
Strontium-90	Ci	<1.08E-09	<1.13E-09	<1.13E-09	<3.34E-09
Cesium-134	Ci	1.59E-07	1.46E-07	2.38E-07	5.43E-07
Cesium-137	Ci	<6.37E-08	<7.33E-08	4.40E-07	4.40E-07
Barium-Lanthanum-140	Ci	<2.15E-07	<2.41E-07	1.03E-06	1.03E-06
Others (Specify)	Ci	--	--	--	--
Cobalt-58	Ci	2.94E-07	6.58E-07	6.82E-07	1.63E-06
Cobalt-60	Ci	1.20E-06	2.66E-06	1.53E-06	5.39E-06
Iron-59	Ci	<1.31E-07	3.49E-07	<2.33E-07	3.49E-07
Chromium-51	Ci	<4.52E-07	<4.89E-07	<8.21E-07	<1.76E-06
Zirconium-Niobium 95	Ci	<1.05E-07	<1.17E-07	<1.93E-07	<4.15E-07
Cerium-141	Ci	<7.83E-08	<8.42E-08	<1.36E-07	<2.98E-07
Cerium-144	Ci	<3.69E-07	<3.90E-08	<6.31E-07	<1.04E-06
Antimony-124	Ci	<8.47E-08	<9.21E-08	<1.37E-07	<3.14E-07
Manganese-54	Ci	<6.53E-08	<7.33E-08	1.76E-06	1.76E-06
Silver-110M	Ci	<9.22E-08	<1.06E-07	<1.73E-07	<3.71E-07
Total for Period	Ci	1.65E-06	3.81E-06	5.68E-06	1.11E-05

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

TABLE 2A

1979

Unit	Jan.	Feb.	Mar.	(1) Quarter
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**Fission and activation products**

Total release (not including tritium, gases, alpha)	Ci	8.94E-04	3.81E-03	2.95E-03	7.66E-03
Average diluted concentration during period	µCi/ml	4.24E-11	2.05E-10	1.40E-10	1.26E-10
Percent of Applicable Limit	%	2.33E-03	3.80E-02	2.39E-02	2.07E-02

**Tritium**

Total Release	Ci	5.51E00	7.32E00	1.17E01	2.45E01
Average diluted concentration during period	µCi/ml	2.61E-07	3.93E-07	5.54E-07	4.03E-07
Percent of applicable limit	%	8.70E-03	1.31E-02	1.85E-02	1.34E-02

**Dissolved and entrained gases**

Total Release	Ci	2.14E-02	6.43E	2.88E-02	1.14E-01
Average diluted concentration during period	µCi/ml	1.02E-09	3.46E-09	1.36E-09	1.87E-09
Percent of applicable limit	%	3.39E-02	1.15E-01	4.55E-02	6.25E-02

**Gross Alpha radioactivity**

Total Release	Ci	3.96E-08	1.11E-07	8.06E-08	2.31E-07
Alpha Average Concentration	µCi/ml	1.88E-15	5.97E-15	3.82E-15	3.80E-15
Volume of waste released (prior to dilution)	Liters	1.71E06	1.91E06	1.65E06	5.27E06

Volume of dilution water (used during period)	liters	2.11E10	1.86E10	2.11E10	6.08E10
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Maximum Concentration (β, γ) Released To Unrestricted Area

January 24, 1979 (0330) = 7.03E-10 µCi/ml  
 February 1, 1979 (1800) = 1.04E-08 µCi/ml  
 March 6, 1979 (1310) = 5.43E09 µCi/ml



YANKEE ATOMIC ELECTRIC COMPANY-ROWE, MASS.  
 EFFLUENT AND WASTE DISPOSAL QUARTERLY REPORT  
 LIQUID EFFLUENTS (1979)

TABLE 2B

Nuclides Released	Unit	January	February	March	Quarter (1)
Strontium-89	Ci	6.60E-05	5.80E-05	5.37E-05	1.78E-04
Strontium-90	Ci	5.10E-07	4.49E-07	4.15E-07	1.37E-06
Cesium-134	Ci	2.82E-04	6.74E-04	6.01E-04	1.56E-03
Cesium-137	Ci	3.41E-04	8.44E-04	7.73E-04	1.96E-03
Iodine-131	Ci	8.66E-05	2.00E-03	1.43E-03	3.52E-03

Cobalt-58	Ci	6.13E-06	5.53E-06	5.14E-06	1.68E-05
Cobalt-60	Ci	2.64E-05	2.44E-05	4.37E-05	9.45E-05
Iron-59	Ci	6.09E-07	1.23E-06	1.85E-07	2.02E-06
Zinc-65	Ci	<4.49E-06	<4.57E-06	<6.79E-06	<1.58E-05
Manganese-54	Ci	4.43E-06	4.50E-06	3.84E-05	4.73E-05
Chromium-51	Ci	<1.95E-05	<3.67E-05	<3.90E-05	<9.52E-05

Zirconium-Niobium-95	Ci	3.15E-07	<4.16E-06	<5.09E-06	3.15E-07
Molybdenum-99	Ci	1.75E-06	<1.62E-05	<2.00E-05	1.75E-06
Technetium-99M	Ci	<1.61E-06	<2.76E-06	<3.31E-06	<7.68E-06
Barium-Lanthanum-140	Ci	<8.53E-06	<1.38E-05	<1.41E-05	<3.64E-05
Cerium-141	Ci	<2.62E-06	<4.61E-06	<5.50E-06	<1.27E-05

Other(Specify)	Ci	-	-	-	-
Iodine-133	Ci	7.68E-05	1.96E-04	6.11E-06	2.79E-04
Selenium-75	Ci	<2.79E-06	<5.04E-06	<5.53E-06	<1.34E-05
Silver-110M	Ci	<2.77E-06	3.45E-07	<4.22E-06	3.45E-07
Antimony-124	Ci	3.19E-07	<2.33E-06	<3.37E-06	3.19E-07
Cerium-144	Ci	7.39E-07	<2.09E-05	<2.51E-05	7.39E-07
	Ci				
Unidentified	Ci	<5.25E-06	<7.04E-06	<1.33E-05	<2.56E-05

Total for Period(above)	Ci	8.94E-04	3.81E-03	2.95E-03	7.66E-03
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Xenon-133	Ci	2.12E-02	6.42E-02	2.87E-02	1.14E-01
Xenon-135	Ci	2.07E-04	6.94E-05	7.35E-05	3.50E-04

Tritium	Ci	5.51E00	7.32E00	1.17E01	2.45E01
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YANKEE ATOMIC ELECTRIC COMPANY-ROWE, MASS.

SOLID WASTE SHIPMENT REPORT

1979

Evaporator Bottoms	January	February	March	Quarter (1)
ft. <sup>3</sup>	--	2.92E02	5.40E02	8.32E02
Ci	--	3.54E-01	3.35E-01	6.89E-01

Dry Compressible Waste	January	February	March	Quarter (1)
ft. <sup>3</sup>	--	8.16E02	--	8.16E02
Ci	--	1.16E00	--	1.16E00

Decontamination Soln.	January	February	March	Quarter (1)
ft. <sup>3</sup>		4.50E01	--	4.50E01
Ci		1.12E-01		1.12E-01

Other:	January	February	March	Quarter ( )
ft. <sup>3</sup>				
Ci				

Solid Waste Disposition

<u>No. of Shipments</u>	<u>Dates</u>	<u>Trans. Mode</u>	<u>Destination</u>
1	Feb. 6, 1979	Truck	Barnwell, S. C.
1	Mar. 15, 1979	Truck	Barnwell, S. C.

YANKEE ATOMIC ELECTRIC COMPANY, ROWE, MASS.  
 Effluent And Waste Disposal Quarterly Report  
 Gaseous Effluents - Summation All Releases

Table 1A

(1979)

	Unit	April	May	June	Quarter ( 2 )
Seconds During Period	Secs.	2.42E06	3.02E06	2.42E06	7.86E06
<b>Fission &amp; Activation Gases</b>					
Total Release	Ci	1.04E01	1.71E01	1.38E01	4.14E01
Average Release Rate For Period	uCi/sec	4.32E00	5.65E00	5.72E00	5.26E00
Percent Of Technical Specification Limit	%	4.24E-01	7.51E-01	6.95E-01	6.08E-01
<b>Iodines</b>					
Total Iodine - 131	Ci	1.35E-06	1.50E-06	<1.56E-06	2.85E-06
Ave. Release Rate For Period	uCi/sec	5.58E-07	4.97E-07	<6.45E-07	5.62E-07
Percent Of Technical Specification Limit	%	3.08E-02	4.26E-02	<4.45E-02	2.49E-02
<b>Particulates</b>					
Total Gross ( B , γ )	Ci	2.48E-06	1.79E-05	7.37E-06	2.77E-05
Particulates With Half-Life > 8 Days	Ci	1.84E-06	1.73E-05	6.93E-06	2.60E-05
Ave. Release Rate For Period *	uCi/sec	7.60E-07	5.71E-06	2.86E-06	3.31E-06
Percent Of Technical Specification Limit	%	2.11E-02	1.11E-01	6.03E-02	5.96E-02
Gross Alpha Radioactivity	Ci	6.41E-08	<2.32E-09	8.93E-09	7.30E-08
<b>Tritium</b>					
Total Release	Ci	2.58E-01	3.00E-01	4.75E-01	1.03E00
Ave. Release Rate For Period	uCi/sec	1.07E-01	9.93E-02	1.96E-01	1.31E-01
Percent Of Technical Specification Limit	%	4.19E-03	6.10E-03	9.65E-03	6.44E-03

\* Applies to particulates with half-lives > 8 Days  
 Maximum Gross Radioactivity Release Rate:  
 April 6, 1979 (1500) - 3.89E01 uCi/sec  
 May 18, 1979 (0815) - 1.09E03 uCi/sec  
 June 21, 1979 (0745) - 1.14E02 uCi/sec



YANKEE ATOMIC ELECTRIC COMPANY, ROWE, MASS. - TABLE 1B  
 EFFLUENT AND WASTE DISPOSAL  
 GASEOUS EFFLUENTS - "1979"

Nuclides Released	Unit	April	May	June	2 Quarter
<b>Fission Gases</b>					
Krypton-85	Ci	2.19E-03	5.28E-03	1.13E00	1.14E00
Krypton-85M	Ci	1.59E-01	2.60E-01	1.64E-01	5.83E-01
Krypton-87	Ci	1.19E-01	2.20E-01	1.58E-01	4.97E-01
Krypton-88	Ci	2.52E-01	4.11E-01	2.72E-01	9.35E-01
Xenon-135	Ci	5.49E00	9.46E00	6.39E00	2.13E+01
Xenon-135	Ci	2.20E00	3.80E00	2.58E00	8.58E00
Xenon-135M	Ci	2.02E00	2.20E00	2.74E00	6.96E00
Xenon-138	Ci	3.38E-02	1.07E-01	1.01E-01	2.42E-01
Others (Specify)	Ci	--	--	--	--
Xenon-133M	Ci	9.52E-02	1.97E-01	7.45E-02	3.67E-01
Argon-37	Ci	8.07E-03	2.86E-02	2.02E-02	5.69E-02
Argon-41	Ci	5.41E-02	1.07E-01	7.14E-02	2.33E-01
Carbon-14	Ci	2.71E-03	3.64E-03	1.26E-01	1.32E-01
Xenon-131M	Ci	8.00E-03	3.00E-01	1.95E-02	3.28E-01
Unidentified	Ci	--	--	--	--
Total for Period	Ci	1.04E01	1.71E01	1.38E01	4.14E01

<b>Iodines</b>					
Iodine-131	Ci	1.35E-06	1.50E-06	< 1.56E-06	2.85E-06
Iodine-133	Ci	6.69E-06	2.87E-05	< 1.66E-06	3.54E-05
Iodine-135	Ci	1.09E-05	4.42E-05	< 2.54E-06	5.51E-05
Total for Period	Ci	1.89E-05	7.44E-05	< 5.76E-06	9.33E-05

Tritium	Ci	2.58E-01	3.00E-01	4.75E-01	1.03E00
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<b>Particulates</b>					
Strontium-89	Ci	9.49E-08	7.58E-08	7.58E-08	2.46E-07
Strontium-90	Ci	2.60E-09	2.08E-09	2.08E-09	6.76E-09
Cesium-134	Ci	<1.59E-07	1.50E-06	3.08E-07	2.11E-06
Cesium-137	Ci	3.98E-07	2.52E-06	1.17E-06	4.09E-06
Barium-Lanthanum-140	Ci	<5.22E-07	<9.80E-07	<9.20E-07	<2.42E-06
Others (Specify)	Ci	--	--	--	--
Cobalt-58	Ci	<1.40E-07	1.47E-06	2.31E-07	1.70E-06
Cobalt-60	Ci	<1.77E-07	2.95E-06	7.61E-07	3.71E-06
Iron-59	Ci	<3.03E-07	<5.60E-07	<5.40E-07	<1.40E-06
Chromium-51	Ci	<1.19E-06	<2.08E-06	<2.05E-06	<5.32E-06
Zirconium-Niobium 95	Ci	2.43E-07	<4.60E-07	<4.42E-07	2.43E-07
Cerium-141	Ci	<1.86E-07	<3.30E-07	<3.26E-07	<8.42E-07
Cerium-144	Ci	<8.79E-07	<1.52E-06	<1.54E-06	<3.94E-06
Antimony-124	Ci	<2.20E-07	<3.74E-07	<3.99E-07	<9.93E-07
Manganese-54	Ci	1.10E-06	8.75E-06	4.08E-06	1.39E-05
Silver-110M	Ci	<2.14E-07	<4.00E-07	<2.48E-07	<8.62E-07
Total for Period	Ci	1.84E-06	1.73E-05	6.93E-06	2.60E-05



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

TABLE 2A  
1979

Unit	April	May	June	Quarter <sup>(2)</sup>
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Fission and activation products

Total release (not including tritium, gases, alpha)	Ci	3.49E-04	2.23E-04	3.36E-04	9.08E-04
Average diluted concentration during period	μCi/ml	1.65E-11	8.44E-12	1.59E-11	1.32E-11
Percent of Applicable Limit	%	3.81E-03	7.29E-04	2.31E-03	2.10E-03

Tritium

Total Release	Ci	1.12E01	2.45E01	1.93E01	5.50E01
Average diluted concentration during period	μCi/ml	5.31E-07	9.28E-07	9.15E-07	8.02E-07
Percent of applicable limit	%	1.77E-02	3.09E-02	3.05E-02	2.67E-02

Dissolved and entrained gases

Total Release	Ci	2.43E-02	2.69E-02	3.20E-03	5.44E-02
Average diluted concentration during period	μCi/ml	1.15E-09	1.02E-09	1.52E-10	7.93E-10
Percent of applicable limit	%	3.83E-02	3.40E-02	5.07E-03	2.64E-02

Gross Alpha radioactivity

Total Release	Ci	5.80E-08	<7.81E-08	<7.10E-08	5.80E-08
Alpha Average Concentration	μCi/ml	2.75E-15	<2.96E-15	<3.36E-15	8.45E-16
Volume of waste released (prior to dilution)	Liters	1.58E06	1.98E06	1.67E06	5.17E06

Volume of dilution water (used during period)	liters	2.11E10	2.64E10	2.11E10	6.86E10
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Maximum Concentration (β, γ) Released To Unrestricted Area

April 9, 1979 (1400) - 2.02E-09 μCi/ml  
 May 24, 1979 (1305) - 1.74E-10 " "  
 June 10, 1979 (1410) - 2.17E-10 " "

YANKEE ATOMIC ELECTRIC COMPANY-ROWE, MASS.  
EFFLUENT AND WASTE DISPOSAL QUARTERLY REPORT  
LIQUID EFFLUENTS  
(1979)

TABLE 2B

Nuclides Released	Unit	April	May	June	Quarter(2)
Strontium-89	Ci	7.64E-05	1.33E-04	2.08E-04	4.17E-04
Strontium-90	Ci	1.10E-06	1.83E-06	2.27E-06	5.20E-06
Cesium-134	Ci	1.73E-05	1.78E-05	2.41E-05	5.92E-05
Cesium-137	Ci	2.23E-05	2.34E-05	3.26E-05	7.83E-05
Iodine-131	Ci	2.17E-04	3.60E-05	1.70E-05	2.70E-04
Cobalt-58	Ci	<2.57E-06	<3.00E-06	<2.77E-06	<8.34E-06
Cobalt-60	Ci	6.52E-06	9.73E-07	9.95E-06	1.74E-05
Iron-59	Ci	<5.54E-06	<5.87E-06	<6.20E-06	<1.76E-05
Zinc-65	Ci	<6.66E-06	<7.03E-06	<6.87E-06	<2.06E-05
Manganese-54	Ci	4.28E-06	3.56E-06	5.85E-06	1.37E-05
Chromium-51	Ci	<2.47E-05	<2.50E-05	<2.49E-05	<7.46E-05
Zirconium-Niobium-95	Ci	<4.45E-06	<4.55E-06	<5.02E-06	<1.40E-05
Molybdenum-99	Ci	<1.74E-05	<1.77E-05	<1.95E-05	<5.46E-05
Technetium-99M	Ci	<2.27E-06	<2.68E-06	<2.24E-06	<7.19E-06
Barium-Lanthanum-140	Ci	<9.75E-06	<1.27E-05	<1.08E-05	<3.33E-05
Cerium-141	Ci	<3.73E-06	<4.63E-06	<3.66E-06	<1.20E-05
Other(Specify)	Ci	--	--	--	--
Iodine-133	Ci	3.87E-06	5.27E-06	2.23E-06	1.14E-05
Selenium-75	Ci	<3.59E-06	<7.85E-06	<5.56E-06	<1.50E-05
Silver-110M	Ci	<3.96E-06	<3.67E-06	<4.24E-06	<1.19E-05
Antimony-124	Ci	<3.52E-06	<3.64E-06	<3.80E-06	<1.10E-05
Cerium-144	Ci	<1.73E-05	<1.57E-05	<3.73E-05	<7.03E-05
	Ci				
Unidentified	Ci	<4.12E-06	1.08E-06	3.41E-05	3.52E-05
Total for Period(above)	Ci	3.49E-04	2.23E-04	3.36E-04	9.08E-04
Xenon-133	Ci	2.42E-02	2.68E-02	3.12E-03	5.41E-02
Xenon-135	Ci	1.31E-04	1.44E-04	8.15E-05	3.57E-04
Tritium	Ci	1.12E01	2.45E01	1.93E01	5.50E+01

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Evaporator Bottoms	April	May	June	Quarter (2)
ft. <sup>3</sup>	4.95E02	8.25E02	--	1.32E03
Ci	2.57E-01	3.67E-01	--	6.24E-01

Dry Compressible Waste	April	May	June	Quarter (2)
ft. <sup>3</sup>	1.02E03	2.04E02	--	1.22E03
Ci	5.58E00	7.19E-01	--	6.30E00

Decontamination Soln.	April	May	June	Quarter ( )
ft. <sup>3</sup>				
Ci				

Other: * Cuno Filters ** IX Resin	April *	May **	June **	Quarter (2)
ft. <sup>3</sup>	1.5E01	8.50E01	8.50E01	1.85E02
Ci	9.0E-01	7.53E01	7.53E01	1.51E02

Solid Waste Disposition

<u>No. of Shipments</u>	<u>Dates</u>	<u>Transport Mode</u>	<u>Destination</u>
2	April 2, and 24	Truck	Barnwell, S. C.
3	May 4, 18 and 31	"	" "
1	June 1	"	" "