

TABLE C

Peach Bottom Units 2 &amp; 3 - LIQUID RADIOACTIVE RELEASE DATA

1976

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	TOTAL
Gross Activity ( $\beta\gamma$ ) Total Curies Except Tritium	2.35E-01	3.22E-01	5.81E-01	3.41E-01	4.6E-01	5.9E-01	2.49E+00
Average $\mu\text{Ci/ml}$ Gross Activity (except Tritium) at Point of Release	7.94E-09	1.21E-08	1.34E-08	1.03E-08	3.44E-08	1.3E-08	1.11E-08 (3)
Total Curies of Tritium	2.59E+00	3.16E+00	5.11E+00	3.89E+00	1.21E+00	7.62E+00	2.36E+01
Average $\mu\text{Ci/ml}$ Tritium at Point of Release	8.67E-08	1.18E-07	1.17E-07	1.18E-07	2.61E-08	1.67E-07	1.05E-07 (3)
Total Curies, Alpha (1)	<3.09E-06	<1.08E-06	<4.03E-07	<9.87E-06	<2.0E-05	<4.78E-05	<8.23E-05
Average $\mu\text{Ci/ml}$ Alpha at Point of Release (1)	<1.03E-13	<4.04E-14	<9.25E-15	<2.98E-13	<4.31E-13	<1.05E-12	<3.66E-13 (3)
Total Curies of Dissolved Noble Gases	2.09E-01	1.06E+00	3.38E-03	-	1.84E-02	1.04E-01	1.39E+00
Average $\mu\text{Ci/ml}$ of Noble Gases at Point of Release	7.0E-09	3.97E-08	7.76E-11	-	3.96E-10	2.29E-09	6.18E-09 (3)
Maximum $\mu\text{Ci/ml}$ Released except Tritium at Point of Release	4.76E-08	6.6E-08	5.4E-08	5.7E-08	1.02E-07	5.86E-08	1.02E-07 (4)
Total Volume of Waste:							
Gallons:	1.03E+06	6.15E+05	1.09E+06	9.85E+05	1.68E+06	1.13E+06	6.52E+06
Liters:	3.79E+06	2.49E+06	4.12E+06	3.55E+06	6.37E+06	6.4E+06	2.47E+07
Total Volume of Dilution:							
Gallons:	7.83E+09	7.07E+09	1.15E+10	8.74E+09	1.23E+10	1.2E+10	5.94E+10
Liters:	2.99E+10	2.67E+10	4.36E+10	3.31E+10	4.65E+10	4.65E+10	2.25E+11
(2) % of Tech. Spec. Curie Limit	3.53E+00	4.83E+00	8.72E+00	5.12E+00	6.90E+00	8.85E+00	6.23E+00

(1) Determined by using a ratio method

(3) Average for 6 month period

(2) Basis: Tech. Spec. 3.8.B.2

(4) Maximum for 6 month period

Revised 9/7/77 - Exponent for Total of "Total Curies of Tritium" was corrected from "-01" to "+01."

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1976

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	TOTAL
Gross Activity ( $\beta\gamma$ ) Total Curies Except Tritium	2.35E-01	3.22E-01	5.81E-01	3.41E-01	4.6E-01	5.9E-01	2.49E+00
Average $\mu\text{Ci}/\text{ml}$ Gross Activity (except Tritium) at Point of Release	7.94E-09	1.21E-08	1.34E-08	1.03E-08	3.44E-08	1.3E-08	1.11E-08 (3)
Total Curies of Tritium	2.59E+00	3.16E+00	5.11E+00	3.89E+00	1.21E+00	7.62E+00	2.36E+01
Average $\mu\text{Ci}/\text{ml}$ Tritium at Point of Release	8.67E-08	1.18E-07	1.17E-07	1.18E-07	2.61E-08	1.67E-07	1.05E-07 (3)
Total Curies, Alpha (1)	<3.09E-06	<1.08E-06	<4.03E-07	<9.87E-06	<2.0E-05	<4.78E-05	<3.23E-05
Average $\mu\text{Ci}/\text{ml}$ Alpha at Point of Release (1)	<1.03E-13	<4.04E-14	<9.25E-15	<2.98E-13	<4.31E-13	<1.05E-12	<3.66E-13 (3)
Total Curies of Dissolved Noble Gases	2.09E-01	1.06E+00	3.38E-03	-	1.84E-02	1.04E-01	1.39E+00
Average $\mu\text{Ci}/\text{ml}$ of Noble Gases at Point of Release	7.0E-09	3.97E-08	7.76E-11	-	3.96E-10	2.29E-09	6.18E-09 (3)
Maximum $\mu\text{Ci}/\text{ml}$ Released except Tritium at Point of Release	4.76E-08	6.6E-08	5.4E-08	5.3E-08	1.02E-07	5.86E-08	1.02E-07 (4)
Total Volume      Gallons: of Waste:            Liters:	1.03E+06 3.79E+06	6.15E+05 2.49E+06	1.09E+06 4.12E+06	9.85E+05 3.55E+06	1.68E+06 6.37E+06	1.13E+06 6.4E+06	6.52E+06 2.47E+07
Total Volume      Gallons: of Dilution:        Liters:	7.83E+09 2.99E+10	7.07E+09 2.67E+10	1.15E+10 4.36E+10	8.74E+09 3.31E+10	1.23E+10 4.65E+10	1.2E+10 4.65E+10	5.94E+10 2.25E+11
(2) % of Tech. Spec. Curie Limit	3.53E+00	4.83E+00	8.72E+00	5.12E+00	6.90E+00	8.85E+00	6.23E+00

(1) Determined by using a ratio method  
 (2) Basis: Tech. Spec. 3.8.B.2

(3) Average for 6 month period  
 (4) Maximum for 6 month period

Revised 9/7/77 - Exponent for Total of "Total Curies of Tritium" was corrected from "-01" to "+01."

TABLE D  
Peach Bottom Units 2 & 3 - Isotopic Analysis of Liquid Radioactive Releases (In Curies)

1976

ISOTOPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	Ci TOTAL
Strontium-89	1.43E-03	1.03E-03	1.41E-03	1.81E-04	7.26E-04	4.17E-04	5.19E-03
Strontium-90	6.37E-05	1.26E-04	9.84E-05	1.67E-05	4.48E-05	3.15E-05	3.81E-04
Cesium-134	3.43E-03	1.15E-02	1.09E-02	8.10E-02	1.38E-01	6.23E-01	8.68E-01
Cesium-137	5.23E-03	1.03E-02	1.16E-02	1.07E-01	1.87E-01	3.54E-01	6.75E-01
Iodine-131	2.63E-02	3.22E-02	7.62E-02	1.10E-02	2.54E-02	7.30E-04	1.72E-01
Cobalt-58	4.55E-03	3.15E-03	2.45E-04	-	9.93E-05	1.60E-03	9.64E-03
Cobalt-60	3.75E-03	7.68E-03	2.52E-03	1.00E-03	5.50E-03	6.54E-03	2.70E-02
Zinc-65	1.99E-02	3.47E-02	6.69E-03	3.80E-03	3.61E-02	1.17E-01	2.18E-01
Manganese-54	3.42E-04	6.47E-04	1.30E-03	-	1.57E-04	-	2.45E-03
Chromium-51	3.41E-03	8.15E-03	3.07E-03	-	4.79E-04	-	1.51E-02
Zirconium-95	1.99E-04	2.21E-04	5.98E-04	-	1.40E-03	-	2.42E-03
Molybdenum-99	1.83E-03	5.47E-02	5.57E-02	8.80E-04	1.25E-03	-	1.14E-01
Lanthanum-140	2.11E-04	1.49E-03	1.24E-03	-	-	-	2.94E-03
Arsenic-76	-	-	-	-	1.03E-03	-	1.03E-03
Sodium-24	8.97E-02	3.75E-02	8.32E-02	1.00E-01	3.69E-02	9.55E-02	4.43E-01
Neptunium-239	7.64E-01	1.45E-01	1.26E-01	-	-	-	2.79E-01
Iodine-132	-	-	-	-	6.43E-05	-	6.43E-05
Iodine-133	1.72E-02	3.07E-02	1.42E-01	-	2.74E-03	2.75E-04	1.93E-01
Iodine-135	1.37E-03	3.75E-03	6.45E-02	-	-	-	6.96E-02
Total (Curies)	1.87E-01	3.83E-01	5.87E-01	3.05E-01	4.37E-01	1.20E+00	3.10E+00

Revised 9/7/77 - Exponent for Zinc-65 total corrected from "-02" to "01"

TABLE D  
Peach Bottom Units 2 & 3 - Isotopic Analysis of Liquid Radioactive Releases (In Curies)

1976

ISOTOPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	Ci TOTAL
Strontium-89	1.43E-03	1.03E-03	1.41E-03	1.81E-04	7.26E-04	4.17E-04	5.19E-03
Strontium-90	6.37E-05	1.26E-04	9.84E-05	1.67E-05	4.48E-05	3.15E-05	3.81E-04
Cesium-134	3.43E-03	1.15E-02	1.09E-02	8.10E-02	1.38E-01	6.23E-01	8.68E-01
Cesium-137	5.23E-03	1.03E-02	1.16E-02	1.07E-01	1.87E-01	3.54E-01	6.75E-01
Iodine-131	2.63E-02	3.22E-02	7.62E-02	1.10E-02	2.54E-02	7.30E-04	1.72E-01
Cobalt-58	4.55E-03	3.15E-03	2.45E-04	-	9.93E-05	1.60E-03	9.64E-03
Cobalt-60	3.75E-03	7.68E-03	2.52E-03	1.00E-03	5.50E-03	6.54E-03	2.70E-02
Zinc-65	1.99E-02	3.47E-02	6.69E-03	3.80E-03	3.61E-02	1.17E-01	2.18E-01
Manganese-54	3.42E-04	6.47E-04	1.30E-03	-	1.57E-04	-	2.45E-03
Chromium-51	3.41E-03	8.15E-03	3.07E-03	-	4.79E-04	-	1.51E-02
Zirconium-95	1.99E-04	2.21E-04	5.98E-04	-	1.40E-03	-	2.42E-03
Molybdenum-99	1.83E-03	5.47E-02	5.57E-02	8.80E-04	1.25E-03	-	1.14E-01
Lanthanum-140	2.11E-04	1.49E-03	1.24E-03	-	-	-	2.94E-03
Arsenic-76	-	-	-	-	1.03E-03	-	1.03E-03
Sodium-24	8.97E-02	3.75E-02	8.32E-02	1.00E-01	3.69E-02	9.55E-02	4.43E-01
Neptunium-239	7.64E-03	1.45E-01	1.26E-01	-	-	-	2.79E-01
Iodine-132	-	-	-	-	6.43E-05	-	6.43E-05
Iodine-133	1.72E-02	3.07E-02	1.42E-01	-	2.74E-03	2.75E-04	1.93E-01
Iodine-135	1.37E-03	3.75E-03	6.45E-02	-	-	-	6.96E-02
Total (Curies)	1.87E-01	3.83E-01	5.87E-01	3.05E-01	4.37E-01	1.20E+00	3.10E+00

Revised 9/7/77 - Exponent for Zinc-65 total corrected from "-02" to "01"