

TABLE 1

1980 GAS & PARTICULATE EFFLUENTS
1 July through 31 December, 1980

<u>Release Point</u>	<u>Bldg. No.</u>	<u>Effluent</u>	<u>Emission Rate (Ci/5 mo.)</u>
SVA ⁽¹⁾	37	Gross Alpha	1.7×10^{-4}
SVB ⁽¹⁾	39	Gross Alpha	1.5×10^{-5}
Experimental Bldg. ⁽²⁾	9	Zr - 95	1.5×10^{-6}
		Ru - 103	1.5×10^{-6}
		Th - 232	1.0×10^{-4}
		U - 238	5.0×10^{-5}
		P - 32	2.0×10^{-9}
TRIGA Fuel Fabrication ⁽¹⁾	22	Gross Alpha	5.5×10^{-5}
		Mixed Fission Products (MFP)	2.5×10^{-4}
Hot Cell ⁽²⁾	23	MFP	2.5×10^{-4}
EA-1 ⁽²⁾	27	I - 131	5×10^{-4}
		H - 3	5×10^{-4}
		MFP	2.0×10^{-3}
		Co - 60	6×10^{-6}
		Kr - 85	5×10^{-3}
		Xe - 133	2.5×10^{-2}
		Mixed Activation Products (MAP)	1.0×10^{-3}
TRIGA Reactor Facility ⁽²⁾	21	Ar - 41	1.4×10^{-1}
		Kr - 85	1.0×10^{-1}
		MFP	2.5×10^{-3}
		Cs - 137	5×10^{-4}

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TRIGA Reactor Facility	21	Eu - 154,155	5×10^{-4}
Fuel Development ⁽²⁾ Research Labs	21	Cs - 137	5×10^{-4}
		Ar - 41	2×10^{-3}
		Kr - 85	8×10^{-3}
		Eu - 154,155	5×10^{-4}
		I - 131	5×10^{-4}
		Xe - 133	5×10^{-4}
		Th - 232	5×10^{-8}
		U - 235	5×10^{-8}
		Ag - 110m	1.6×10^{-6}
		MFP	2.5×10^{-3}
Special Products Bldg. ⁽²⁾	SP-2	Kr - 85	1×10^{-1}
	Xe - 133	Xe - 133	1×10^{-1}
Waste Processing Facility ⁽²⁾	25	MFP	7×10^{-8}
		MFP	7×10^{-8}
		U - 235	5×10^{-8}
		TH - 232	5×10^{-8}
Science Buildings (A,B&C) ⁽²⁾	2	H - 3	3.5×10^{-1}
		U - 235	1×10^{-6}
		U - 238	5×10^{-5}
		Th - 232	3.5×10^{-7}
		Zr - 95	3.0×10^{-8}
		I - 131	2.0×10^{-10}

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1 July through 31 December, 1980

References

- (1) Measured
- (2) Estimated from Effluent Surveys
- (3) Calculated Facility Release

TABLE 11

1980 LIQUID EFFLUENTS

1 July through 31 December, 1980

<u>Release Point</u>	<u>Bldg. No.</u>	<u>Effluent</u>	<u>Emission Rate (Ci/6 mo.)</u>
SVA to Sanitary Sewer	37	U - 235	4.3×10^{-4}

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1980 NON-RADIOLOGICAL EFFLUENT DATA

1 July through 31 December, 1980A. Suspended Particulates

<u>Date of Sample Collection</u>	<u>No. of Samples</u>	<u>Particulate Concentration Range $\mu\text{g}/\text{M}^3$</u>	<u>Arithmetic Mean $\mu\text{g}/\text{M}^3$</u>
5 January to 12 January, 1981	16	25 - 61	41.0

B. Hydrogen Chloride in Air

<u>Date of Sample Collection</u>	<u>No. of Samples</u>	<u>HCl (PPM)</u>	<u>Concentration $\mu\text{g}/\text{M}^3$</u>
22 September, 1980	2	0.002 - 0.003	2.6 - 4.3
4 December, 1980	2	0.005 - 0.01	7.1 - 13.3