

TABLE I

1979 GAS & PARTICULATE EFFLUENTS - 1 January through 30 June

<u>Release Point</u>	<u>Bldg. No.</u>	<u>Effluent</u>	<u>Emission Rate</u> (Ci/6 mo.)	
SVA ⁽¹⁾	37	Gross Alpha	1.3×10^{-3}	
SVB ⁽¹⁾	39	Gross Alpha	8.0×10^{-5}	
Incinerator ⁽²⁾	25	Uranium-235	1.1×10^{-6}	} No Change
		Thorium-232	1.1×10^{-6}	
Experimental Bldg. ⁽²⁾	9	Ba-133	5×10^{-7}	} No Change
		Ce-144	5×10^{-7}	
		Cs-137	5×10^{-7}	
		Fe-59	5×10^{-7}	
		Gd-159	5×10^{-7}	
		Cr-51	5×10^{-7}	
		Ru-103	5×10^{-7}	
		Sb-125	5×10^{-7}	
		Tc-95	5×10^{-7}	
		Zr-95	5×10^{-7}	
		I-131	5×10^{-5}	
		Alpha	9×10^{-5}	
		Beta	8×10^{-5}	
		TRIGA Fuel Fabrication ⁽¹⁾	22	
Hot Cell ⁽²⁾	23	Krypton-85	5.0×10^{-1}	
		Mixed Fission Products	2×10^{-4}	
		Iodine-131	5×10^{-4}	
EAI ⁽²⁾	27	Tritium	5×10^{-4}	
		Mixed Fission Products	1.5×10^{-3}	
		Cobalt-60	5×10^{-6}	
		Krypton-85	6×10^{-3}	
		Xenon-133	2.5×10^{-3}	
		Mixed Activation Products	1.0×10^{-3}	

7909250 688

1027 077

TABLE I (Cont).

1979 GAS & PARTICULATE EFFLUENTS - 1 January through 30 June

<u>Release Point</u>	<u>Bldg. No.</u>	<u>Effluent</u>	<u>Emission Rate (Ci/6 mo.)</u>	
TRIGA Reactor Facility ⁽³⁾	21	Argon-41	5.0×10^{-1}	
		Krypton-85	3×10^{-3}	
Fuel Development ⁽²⁾ Research Labs	21	Cesium-137	5×10^{-4}	
		Argon-41	2×10^{-3}	
		Krypton-85	3×10^{-3}	
		Eu-154, 155	5×10^{-4}	
		Mixed Fission Products	2.5×10^{-3}	
Special Products Bldg. ⁽²⁾	SP-2	Krypton-85	1×10^{-2}	} No Change
		Xenon-133	1×10^{-2}	
Waste Processing Facility ⁽²⁾	25	Mixed Fission Products	7×10^{-8}	
		Mixed Activation Products	7×10^{-8}	
		Uranium-235	5×10^{-8}	
		Thorium-232	5×10^{-8}	

(1) Measured

(2) Estimated from effluent surveys

(3) Calculated facility release

TABLE II

1979 LIQUID EFFLUENTS - 1 January through 30 June

<u>Release Point</u>	<u>Bldg. No.</u>	<u>Effluent</u>	<u>Emission Rate (Ci/6 mo.)</u>
SVA to Sanitary Sewer	37	Uranium-235	1.4×10^{-4}

1027 079

TABLE III

1979 NON-RADIOLOGICAL EFFLUENT DATA - 1 January through 30 June

A. 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>
8-15 January 1979	17	13 - 78	31.3

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>
7 March 1979	2	0.17	245
8 June 1979	2	0.07	94

1027 080