

TABLE 2A

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 1993

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

SEABROOK STATION	UNIT 1	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4	Est. Total Error, %
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A. Fission & Activation Products

1. Total release (not including tritium, gases, alpha)	CI	3.99E-02	3.12E-02 3.09E-02	1.29E-02	6.03E-03 8.06E-03	6.00E+00
2. Average diluted concentration during period	$\mu\text{Ci/ml}$	2.12E-10	1.48E-10	6.42E-11	3.17E-11 4.24E-11	
3. Percent of applicable limit	%	6.66E-02 (2)	5.80E-02 (2)	1.94E-02 (2)	8.4E-03 (1)	

B. Tritium

1. Total Release	CI	1.27E+02	1.59E+02	5.87E+01	2.18E+02	8.00E+00
2. Average diluted concentration during period	MCI/ML	6.75E-07	7.54E-07	2.92E-07	1.15E-06	
3. Percent of applicable limit	%	6.66E-02 (2)	5.80E-02 (2)	1.94E-02 (2)	8.4E-03 (1)	

C. DISSOLVED AND ENTRAINED GASES

1. TOTAL RELEASE	CI	ND	ND	ND	1.17E-05	1.90E+01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	MCI/ML	NA	NA	NA	6.16E-14	
3. PERCENT OF APPLICABLE LIMIT	%	NA	NA	NA	3.1E-08	

D. Gross Alpha Radioactivity

1. Total release	CI	ND	ND	ND	ND	1.00E+01
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E. Volume of waste released (prior to dilution)	liters	4.31E+07	4.32E+07	3.92E+07	4.26E+07	1.30E+00
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F. Volume of dilution water used during period	liters	1.88E+11	2.11E+11	2.01E+11	1.90E+11	9.00E+00
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**TABLE 2B
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LIQUID EFFLUENTS - BATCH**

NUCLIDES RELEASED	UNITS	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
STRONTIUM-89	CI	ND	ND	ND	ND
strontium-90	CI	ND	ND	ND	ND
cesium-134	CI	ND	ND	ND	ND
cesium-137	CI	ND	ND	ND	ND
iodine-131	CI	1.36E-04	3.49E-06	ND	ND
iodine-133	CI	1.16E-04	ND	1.35E-06	1.94E-06
cobalt-58	CI	3.97E-03	2.82E-03	9.74E-04	2.17E-03
cobalt-60	CI	7.18E-04	5.50E-04	2.04E-04	5.22E-04
iron-59	CI	5.02E-04	2.17E-04	ND	7.56E-06
iron-55	CI	2.97E-02	2.43E-02	1.17E-02	ND- 2.03E-03
manganese-54	CI	2.55E-04	2.44E-04	4.18E-05	4.88E-04
chromium-51	CI	1.65E-04	ND	ND	ND
niobium-97	CI	3.32E-06	ND	ND	1.90E-05
zirconium-niobium-95	CI	3.08E-5	6.74E-06	ND	ND
zirconium- beryllium-7	CI	1.17E-04	ND	ND	ND
technetium-99m	CI	1.58E-05	1.60E-05	ND	2.59E-06
antimony-124	CI	8.24E-05	6.32E-04	ND	ND
antimony-125	CI	3.98E-03	2.03E-03	ND	2.82E-05 2.82E-03
bromine-82	CI	1.03E-04	7.25E-06	ND	ND
sodium-24	CI	2.05E-05	ND	ND	ND
cesium-137	CI	ND	3.30E-05	ND	ND
unidentified	CI	ND	ND	ND	ND
total for period	CI	3.99E-02	3.42E-02 3.09E-02	1.29E-02	8.03E-03 8.06E-3
	CI				
	CI				
	CI				
	CI				
	CI				
xenon-133	CI	ND	ND	ND	ND
xenon-135	CI	ND	ND	ND	1.17E-05

**TABLE 2B
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LIQUID EFFLUENTS - CONTINUOUS**

Nuclides released	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4
strontium-89	Cl	ND	ND	ND	ND
strontium-90	Cl	ND	ND	ND	ND
cesium-134	Cl	ND	ND	ND	ND
cesium-137	Cl	ND	ND	ND	ND
iodine-131	Cl	ND	ND	ND	ND
iodine-133	Cl	ND	ND	ND	ND
cobalt-58	Cl	ND	ND	ND	ND
cobalt-60	Cl	ND	1.72E-05	ND	ND
iron-55	Cl	ND	ND	ND	ND
iron-55	Cl	ND	ND	ND	ND
nickel-65	Cl	ND	ND	ND	ND
manganese-54	Cl	ND	1.86E-06	ND	ND
chromium-51	Cl	ND	ND	ND	ND
niobium-97	Cl	ND	ND	ND	ND
zirconium-niobium-95	Cl	ND	ND	ND	ND
zirconium	Cl	ND	ND	ND	ND
beryllium-7	Cl	ND	ND	ND	ND
technetium-99m	Cl	ND	ND	ND	ND
antimony-124	Cl	ND	ND	ND	ND
antimony-125	Cl	ND	ND	ND	ND
bromine-82	Cl	ND	ND	ND	ND
sodium-24	Cl	ND	ND	ND	ND
cesium-137	Cl	ND	ND	ND	ND
molybdenum-99	Cl	ND	ND	ND	ND
barium-lanthanum-140	Cl	ND	ND	ND	ND
cerium-141	Cl	ND	ND	ND	ND
undidentified	Cl	ND	ND	ND	ND
total for period	Cl	ND	1.91E-05	ND	ND
	Cl				
	Cl				
xenon-133	Cl	ND	ND	ND	ND
xenon-135	Cl	ND	ND	ND	ND

TABLE 3

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 1993

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not irradiated fuel)

1. Type of waste - NONE	Unit	Reporting	Est. Total Error. %
		First 6-month Period	
a. Spent resins, filter sludges, evaporator bottoms, etc	0 m ³ 0 Ci	NONE	
b. Dry compressible waste, contaminated equip, etc	0 m ³ 0 Ci	NONE	
c. Irradiated components, control rods etc	0 m ³ 0 Ci	NONE	
d. Other (described)	0 m ³ 0 Ci	NONE	

2. Estimate of major nuclide composition (by type of waste)

a.	N/A		
b.			
c.			
d.			

3. Solid Waste Disposition

Number of Shipments

Mode of Transportation

Destination

NONE

B. IRRADIATED FUEL SHIPMENTS (Disposition)

Number of Shipments

Mode of Transportation

Destination

NONE