

TABLE 1A

EFFLUENT AND WASTE DISPOSAL REPORT (1984)GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	QTR	QTR	QTR	QTR	TOTAL
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A. FISSION & ACTIVATION GASES

1. TOTAL RELEASE	Ci	2.77E3	2.34E3	1.93E3	3.90E3	1.09E4
2. AVERAGE RELEASE RATE FOR PERIOD	µCi/Sec	3.52E2	2.96E2	2.43E2	4.91E2	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	1.80	1.70	1.68	2.30	

B. IODINE I-131

1. TOTAL IODINE-131	Ci	6.81E-4	1.60E-3	8.99E-4	8.04E-4	3.98E-3
2. AVERAGE RELEASE RATE FOR PERIOD I-131	µCi/Sec	8.75E-5	2.01E-4	1.13E-4	1.01E-4	
3. PERCENT OF TECHNICAL SPEC. LIMIT I-131	%	0.17	0.39	0.22	0.20	

C. PARTICULATES

1. PARTICULATES W/HALF- LIVES > 8 DAYS	Ci	8.52E-4	6.73E-4	5.14E-4	8.72E-4	2.91E-3
2. AVERAGE RELEASE RATE FOR PERIOD	µCi/Sec	1.10E-4	8.47E-5	6.47E-5	1.10E-4	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	1.99E-4	1.48E-4	1.18E-4	1.99E-4	
4. GROSS ALPHA RADIOACTIVITY	Ci	3.46E-5	7.86E-6	2.64E-5	2.47E-5	

D. TRITIUM

1. TOTAL RELEASE	Ci	1.36E1	1.17E1	4.56	1.26E1	4.25E1
2. AVERAGE RELEASE RATE FOR PERIOD	µCi/Sec	1.75	1.47	5.74E-1	1.59	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	2.50E-3	2.20E-3	8.43E-4	2.3E-3	

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TABLE 1B

Rev. 1

EFFLUENT AND WASTE DISPOSAL REPORT (1984)GASEOUS EFFLUENTS - ELEVATED RELEASE

CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	QTR	QTR	QTR	QTR	TOTAL
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1. FISSION GASES

KRYPTON-85	CI	*	*	*	*	*
KRYPTON-85M	CI	1.26E2	1.11E2	7.42E1	1.85E2	4.96E2
KRYPTON-87	CI	1.33E2	1.21E2	9.18E1	2.21E2	5.67E2
KRYPTON-88	CI	2.94E2	2.74E2	1.87E2	4.63E2	1.22E3
XENON-133	CI	3.31E2	2.40E2	1.75E2	4.04E2	1.15E3
XENON-135	CI	1.59E3	1.29E3	8.91E2	2.13E3	5.90E3
XENON-135M	CI	5.42E1	3.71E1	4.95E1	9.78E1	2.39E2
XENON-138	CI	9.00E1	9.81E1	7.60E1	2.31E2	4.95E2
KR-89	CI	*	*	*	*	*
XE-133M	CI	2.12	2.50E1	8.68	1.84E2	2.20E2
XE-131M	CI	1.52E2	1.34E2	3.62E2	*	6.48E2
XE-137	CI	*	5.60	1.86E1	4.13E1	6.55E1
	CI					
	CI					
	CI					
TOTAL FOR PERIOD	CI	2.77E3	2.34E3	1.93E3	3.96E3	1.10E4

2. IODINES

IODINE-131	CI	6.81E-4	1.60E-3	8.99E-4	8.04E-4	3.98E-3
IODINE-133	CI	6.76E-4	7.29E-4	7.03E-4	8.95E-4	3.00E-3
IODINE-135	CI	7.30E-5	1.64E-4	2.13E-4	1.89E-4	6.39E-4
TOTAL FOR PERIOD	CI	1.43E-3	2.49E-3	1.82E-3	1.89E-3	7.62E-3

3. SEE FOLLOWING PAGE FOR PARTICULATES.

* Indicates none detected or less than LLD

TABLE 1B - EFFLUENT AND WASTE DISPOSAL REPORT (1984)
GASEOUS EFFLUENTS - ELEVATED RELEASE - (cont'd)

CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	QTR	QTR	QTR	QTR	TOTAL
3. PARTICULATES						
STRONTIUM-89	CI	1.83E-5	9.20E-6	2.51E-5	3.52E-5	8.78E-5
STRONTIUM-90	CI	*	*	*	*	*
CESIUM-134	CI	5.90E-7	1.76E-6	*	3.37E-6	5.72E-6
CESIUM-137	CI	1.35E-5	1.13E-5	1.06E-5	4.25E-5	7.79E-5
BARIUM-LANTHANUM-140	CI	6.37E-4	4.88E-4	2.81E-4	6.67E-4	2.07E-3
CO-57	CI	2.08E-6	8.70E-7	*	4.0 E-7	3.35E-6
CO-58	CI	6.77E-6	3.93E-6	1.01E-5	1.9 E-6	2.27E-5
CO-60	CI	9.13E-5	6.64E-5	1.39E-4	8.81E-5	3.84E-4
CE-144	CI	1.04E-5	2.31E-5	1.55E-6	*	3.51E-5
CE-141	CI	2.22E-6	1.23E-6	1.07E-6	1.34E-6	5.86E-6
CR-51	CI	3.15E-5	2.00E-5	6.63E-6	*	5.81E-5
MN-54	CI	1.51E-5	2.41E-5	2.55E-5	1.38E-5	7.85E-5
FE-59	CI	1.32E-6	*	1.47E-6	*	2.79E-6
ZN-65	CI	5.33E-6	4.05E-6	4.03E-6	5.2 E-6	1.86E-5
ZR-95	CI	2.12E-6	2.64E-6	6.60E-7	9.2 E-7	6.34E-6
NB-95	CI	4.88E-6	7.53E-6	2.63E-6	7.6 E-7	1.58E-5
RU-RH-106	CI	7.19E-6	7.90E-6	2.71E-6	1.13E-5	2.91E-5
RU-103	CI	3.15E-6	8.10E-7	1.71E-6	3.1 E-7	5.98E-6
CS-136	CI	*	2.00E-7	*	*	2.00E-7
	CI					
	CI					
	CI					
TOTAL FOR PERIOD	CI	8.52E-4	6.73E-4	5.14E-4	8.72E-4	2.91E-3

* Indicates none detected or less than LLD

TABLE 2A

EFFLUENT AND WASTE DISPOSAL REPORT (1984)LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

UNIT	QTR	QTR	QTR	QTR	TOTAL
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A. FISSION AND ACTIVATION
PRODUCTS

1. TOTAL RELEASE (NOT INCL. TRITIUM, GASES, ALPHA)	Ci	1.20	5.36E-1	1.07	4.55E-1	3.26
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	µCi/ml	2.33E-8	7.30E-9	1.23E-8	7.13E-9	
3. PERCENT OF APPLICABLE LIMIT	%	0.06	0.02	0.04	0.01	

B. TRITIUM

1. TOTAL RELEASE	Ci	2.27E1	3.26E1	2.67E1	4.34E1	1.25E2
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	µCi/ml	4.42E-7	4.44E-7	3.13E-7	6.81E-7	
3. PERCENT OF APPLICABLE LIMIT	%	0.01	0.01	0.01	0.02	

C. DISSOLVED AND ENTRAINED GASES

1. TOTAL RELEASE	Ci	1.31E-2	1.64E-2	5.07E-2	2.82E-2	1.08E-1
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	µCi/ml	2.55E-10	2.23E-10	5.93E-10	4.42E-10	
3. PERCENT OF APPLICABLE LIMIT	%	8.62E-3	5.83E-3	0.01	0.01	

D. GROSS ALPHA RADIOACTIVITY

1. TOTAL RELEASE	Ci	2.15E-3	4.60E-4	8.01E-4	2.15E-4	3.63E-3
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E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION)	Liters	5.72E5	6.56E5	1.03E6	6.24E5	2.88E6
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F. VOLUME OF DILUTION WATER USED DURING PERIOD	Liters	5.14E10	7.34E10	8.57E10	6.38E10	2.74E11
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