

## 1. LIQUID RELEASES

	UNITS	JAN	FEB	MAR	APRIL	MAY	JUNE
1. GROSS RADIOACTIVITY (B,Y)							
A) TOTAL RELEASE	CURIES	1.07E-3	1.5E-3	3.0E-3	6.8E-3	1.8E-3	1.9E-3
B) AVERAGE CONCENTRATION RELEASED	UCI/ML	4.76E-6	2.7E-6	4.2E-6	9.2E-6	1.9E-6	1.0E-6
C) MAXIMUM CONCENTRATION RELEASED	UCI/ML	3.46E-5	4.0E-5	7.1E-5	1.4E-4	5.5E-5	1.3E-5
2. TRITIUM							
A) TOTAL RELEASE	CURIES	22.7	22.7	7.3	1.2	32.3	9.6
B) AVERAGE CONCENTRATION RELEASED	UCI/ML	3.77E-7	4.5E-7	1.3E-7	3.6E-8	6.4E-7	1.5E-7
3. DISSOLVED NOBLE GASES							
A) TOTAL RELEASE	CURIES	ND	ND	ND	ND	ND	ND
B) AVERAGE CONCENTRATION RELEASED	UCI/ML						
4. GROSS ALPHA RADIOACTIVITY							
A) TOTAL RELEASED	CURIES	ND	ND	ND	ND	ND	ND
B) AVERAGE CONCENTRATION RELEASED	UCI/ML						
5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL	LITERS	7.3XE5	6.1E5	1.2E6	9.8E5	1.3E6	1.9E6
6. VOLUME OF DILUTION WATER	LITERS	6.0E10	1.9E11	2.1E11	1.2E11	1.9E11	2.5E11
7. ISOTOPES RELEASED							
BaLa 140	CURIES				1.5E-4		
SR-89							
I-131		5.19E-5					
I-133							
MO-99						6.7E-5	
CS-137		5.25E-4	3.5E-4	7.8E-4	3.2E-3	7.7E-4	3.2E-4
CS-134		1.43E-4	1.4E-4	2.8E-4	1.5E-3	2.0E-4	9.4E-5
CO-60		3.27E-4	8.3E-4	1.8E-3	8.7E-4	3.7E-4	1.4E-3
CO-58		2.64E-5	9.9E-5		3.4E-4	2.4E-4	2.2E-5
CR-51				1.5E-5	1.4E-4	9.2E-5	
MN-54			7.7E-5	1.2E-4		1.2E-5	4.0E-5
NB-95						1.1E-5	8.0E-6
AG-110m					2.0E-5		1.9E-6
CE/PR-144					1.3E-4		6.7E-6
RU-103					9.6E-5	2.3E-5	

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## II. AIRBORNE RELEASES

	UNITS	JAN	FEB	MAR	APRIL	MAY	JUNE
1. TOTAL NOBLE GASES	CURIES	39.245	17.04	45.32	79.08	8.52	52.481
2. TOTAL HALOGENS	CURIES	1.1E-3	3.86E-4	4.76E-4	3.39E-3	4.58E-5	1.47E-4
3. TOTAL PARTICULATE GROSS RADIOACTIVITY (B,Y)	CURIES	6.6E-7	5.95E-7	1.8E-6	2.2E-6	4.67E-7	7.44E-7
4. TOTAL TRITIUM	CURIES	2.19	3.21	3.47	3.13	4.15	4.21
5. TOTAL PARTICULATE GROSS ALPHA RADIOACTIVITY	CURIES	3.43E-8	1.0E-8	5.7E-8	3.64E-8	ND	ND
6. MAXIMUM NOBLE GAS RELEASE RATE	UCI/ML	19	16	3040	3050	6.4	71.6
7. PERCENT OF APPLICABLE LIMIT FOR:							
A) NOBLE GASES	%	0.049	0.013	0.029	0.051	0.009	0.038
B) HALOGENS	%	1.41	0.53	0.61	4.51	0.059	0.20
C) PARTICULATES	%	<0.0001	<0.0001	<0.001	<0.001	<0.001	<0.001
8. ISOTOPES RELEASED:							
PARTICULATES							
CS-137	CURIES	6.82E-8	1.47E-7	6.11E-7	3.24E-7	2.47E-7	1.07E-7
CO-58		ND	ND	ND	8.87E-8	ND	ND
CO-60		ND	1.8E-7	1.37E-7	3.2E-7	ND	ND
CS-134		3.27E-8	6.63E-8	ND	ND	ND	ND
CE-141		ND	ND	ND	4.34E-9	ND	ND
CE-144		ND	ND	ND	1.61E-8	ND	ND
NB-95		6.82E-8	ND	ND	8.34E-8	ND	ND
I-131		8.77E-8	ND	ND	7.47E-9	ND	ND
MN-54		2.36E-8	ND	ND	ND	ND	ND
SB-129		ND	7.7E-8	ND	5.92E-8	ND	ND
AG-110m		ND	ND	ND	9.82E-8	ND	ND
NP-239		ND	ND	ND	4.99E-7	ND	ND
RU-103		ND	ND	ND	ND	ND	ND
HALOGENS							
I-131		5.94E-4	1.12E-4	2.35E-4	1.64E-3	3.65E-5	4.8E-5
I-133		5.02E-4	2.74E-4	2.41E-4	4.88E-5	9.32E-6	9.9E-5
I-135		-	-	-	-	-	-



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SHIPMENTS OF SOLID WASTES

January - June 1980

		<u>ft<sup>3</sup></u>	<u>CURIES</u>
2 January 80	Chem Nuclear, Barnwell, South Carolina	390	0.98
2 February 80	Chem Nuclear, Barnwell, South Carolina	127	278.76
20 February 80	Chem Nuclear, Barnwell, South Carolina	127	132.89
17 March 80	Chem Nuclear, Barnwell, South Carolina	405	0.87
25 March 80	NECO, Beatty, Nevada	188	0.71
31 March 80	Chem Nuclear, Barnwell, South Carolina	674	0.02
7 April 80.	NECO, Beatty, Nevada	615	1.46
26 April 80	Chem Nuclear, Barnwell, South Carolina	595	0.96
28 April 80	Chem Nuclear, Barnwell, South Carolina	605	0.69
5 May 80	Chem Nuclear, Barnwell, South Carolina	637	7.82
12 May 80	Chem Nuclear, Barnwell, South Carolina	473	1.15
19 May 80	Chem Nuclear, Barnwell, South Carolina	905	0.93
27 May 80	Chem Nuclear, Barnwell, South Carolina	695	2.69
2 June 80	Chem Nuclear, Barnwell, South Carolina	803	1.84
9 June 80	Chem Nuclear, Barnwell, South Carolina	473	0.93
16 June 80	Chem Nuclear, Barnwell, South Carolina	473	0.72
20 June 80	Chem Nuclear, Barnwell, South Carolina	473	0.82
25 June 80	Chem Nuclear, Barnwell, South Carolina	<u>672</u>	<u>0.52</u>
		9330 ft <sup>3</sup>	434.76 Ci

