

LIQUID WASTE DISCHARGE OF 1994

Reference Date: 10/1/90
 Half Life (hrs) = 106872
 Half Life (days) = 4453

Year	Quarter	Date of Discharge	Gross B/G Micro Ci/cc	H-3 Conc. Micro Ci/cc	Co-60 Gam. Spec. Micro Ci/cc	Volume Discharged Gallons	Gross B/G Micro Ci	H-3 Micro Ci	Co-60 Micro Ci	Old Value H-3 Conc. μCi/cc
1994	1 st	2/18/94	4.96E-09	7.43E-06	1.93E-07	3200	0.060	90.033	2.338	9.01E-06
		2/18/94	4.87E-09	5.79E-06	4.38E-07	2100	0.039	45.995	3.481	7.01E-06
		3/17/94	2.92E-08	9.88E-06	3.27E-07	2600	0.287	97.181	3.218	1.20E-05
	2 nd	3/17/94	1.95E-08	9.28E-06	3.85E-07	2600	0.192	91.360	3.784	1.13E-05
		5/6/96	4.88E-09	1.40E-05	3.81E-07	2600	0.048	137.680	3.749	1.92E-05
		5/6/96	9.77E-09	1.20E-05	2.55E-07	2200	0.081	99.778	2.123	1.65E-05
		6/10/94	4.90E-09	5.46E-05	4.76E-07	3700	0.069	764.144	6.666	6.73E-05
		6/10/94	4.90E-09	3.28E-05	4.28E-07	1500	0.028	186.287	2.430	4.05E-05
		6/24/94	4.70E-09	2.79E-05	4.44E-07	2800	0.050	295.794	4.706	3.45E-05
		6/24/94	9.40E-09	4.21E-05	4.24E-07	2200	0.078	350.298	3.531	5.20E-05
	3 rd	7/7/94	1.45E-08	4.61E-05	4.93E-07	3900	0.213	680.509	7.277	5.71E-05
		7/7/94	2.41E-08	5.05E-05	5.06E-07	1400	0.128	267.388	2.681	6.25E-05
		7/18/94	9.37E-09	3.57E-05	5.44E-07	9000	0.319	1216.287	18.531	4.43E-05
		7/18/94	4.68E-09	3.04E-05	5.85E-07	5518	0.098	634.619	12.218	3.77E-05
		7/20/94	1.40E-08	2.83E-05	5.90E-07	2700	0.143	289.019	6.030	3.51E-05
		7/22/94	2.33E-08	2.66E-05	6.13E-07	2300	0.203	231.399	5.336	3.30E-05
		8/5/94	2.85E-08	2.66E-05	5.87E-07	2600	0.280	261.803	5.777	3.31E-05
		8/5/94	1.90E-08	1.33E-05	6.18E-07	2400	0.173	120.467	5.614	1.65E-05
		8/22/94	4.96E-09	1.10E-05	4.24E-07	3700	0.069	153.797	5.938	1.37E-05
		8/22/94	1.99E-08	3.21E-05	2.65E-07	1400	0.105	169.907	1.404	4.00E-05
		8/23/94	5.00E-08	5.47E-05	4.25E-07	2100	0.397	434.471	3.374	6.82E-05
		8/23/94	2.00E-08	5.49E-05	3.27E-07	900	0.068	186.912	1.114	6.85E-05
	4 th	9/22/94	9.66E-09	3.50E-05	4.09E-07	3100	0.113	410.918	4.793	4.39E-05
		9/22/94	5.31E-08	3.84E-05	2.95E-07	2200	0.442	319.851	2.456	4.82E-05
		12/1/94	2.41E-08	3.73E-05	3.88E-07	3800	0.347	536.270	5.581	4.73E-05
		12/1/94	9.18E-08	3.26E-05	2.72E-07	1300	0.451	160.338	1.338	4.13E-05

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 PDR ADDCK 05000160
 R 961118

LIQUID WASTE DISCHARGE OF 1994

Ga Tech Dilution factor (cc/Qtr) = 2.505E+11

Total Activity Released / Quarter for 1994

Gross B/G	H-3	Co-60
Micro Ci	Micro Ci	Micro Ci

1st QTR	0.5774	324.5692	12.8209
2nd QTR	0.3539	1833.9805	23.2051
3rd QTR	2.7529	5377.3467	82.5445
4th QTR	0.7981	696.6283	6.9190

Yearly Total =	4.4822	8232.5247	125.4895
Yearly Total (Ci) =	4.482E-06	8.233E-03	1.255E-04
AVG Yearly			
Conc. μ Ci/cc =	1.604E-08	2.946E-05	4.491E-07
Tech Spec			
μ Ci/cc =	3.000E-06	1.000E-02	3.000E-05

% Tech Spec =	0.53	0.29	1.50
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Quarterly Volume Discharged from NNRC

	Gals	cc
1st QTR	1.05000E+04	3.97425E+07
2nd QTR	1.50000E+04	5.67750E+07
3rd QTR	4.32180E+04	1.63580E+08
4th QTR	5.10000E+03	1.93035E+07

Yearly Total =	7.382E+04	2.794E+08
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NOTE: Total Alpha radioactivity released and average Concentration released is < MDA

NOTE: New limits for Co-60 and H-3. New limits are based on the New 10 CFR 20.

Quarterly Average Release Based on the Ga Tech Dilution factor for 1994

Gross B/G	H-3	Co-60
Micro Ci/cc	Micro Ci/cc	Micro Ci/cc

1st QTR	2.305E-12	1.296E-09	5.118E-11
2nd QTR	1.413E-12	7.321E-09	9.264E-11
3rd QTR	1.099E-11	2.147E-08	3.295E-10
4th QTR	3.186E-12	2.781E-09	2.762E-11

Quarterly Average Release Based on the NNRC quarterly volume discharged

Gross B/G	H-3	Co-60
Micro Ci/cc	Micro Ci/cc	Micro Ci/cc

1st QTR	1.45273E-08	8.16680E-06	3.22600E-07
2nd QTR	6.23347E-09	3.23026E-05	4.08720E-07
3rd QTR	1.68290E-08	3.28729E-05	5.04612E-07
4th QTR	4.13441E-08	3.60882E-05	3.58431E-07

Maximum quarterly Concentration

Gross B/G	H-3	Co-60
Micro Ci/cc	Micro Ci/cc	Micro Ci/cc

1st QTR	2.916E-08	9.875E-06	4.380E-07
2nd QTR	9.770E-09	5.456E-05	4.760E-07
3rd QTR	5.312E-08	5.487E-05	6.180E-07
4th QTR	9.175E-08	3.728E-05	3.880E-07