

LIQUID WASTE DISCHARGE OF 1992

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
1992	1 st	1/15/92	2.74E-07	3.47E-05	4.89E-07	3400	3.526	446.685	6.293	3.74E-05
		1/15/92	3.18E-07	3.78E-05	4.66E-07	1600	1.926	228.777	2.822	4.07E-05
		3/17/92	1.38E-07	2.56E-05	3.52E-07	3400	1.781	329.991	4.530	2.79E-05
	2 nd	3/17/92	4.94E-09	2.63E-05	5.24E-07	1300	0.024	129.253	2.576	2.85E-05
		5/6/92	3.37E-08	5.52E-05	3.25E-07	3450	0.440	720.309	4.244	6.04E-05
		5/6/92	1.39E-08	4.51E-05	6.22E-07	1450	0.076	247.604	3.414	4.94E-05
		6/12/92	1.19E-07	8.19E-05	5.36E-07	2900	1.306	899.014	5.883	9.02E-05
		6/12/92	1.05E-07	9.02E-05	5.77E-07	1900	0.755	648.432	4.149	9.93E-05
		6/24/92	4.62E-07	1.09E-04	5.48E-07	2500	4.367	1035.995	5.185	1.21E-04
		6/24/92	1.57E-07	1.13E-04	5.41E-07	2000	1.185	854.181	4.095	1.25E-04
	3 rd	7/16/92	1.50E-07	1.28E-04	3.27E-07	3850	2.186	1869.015	4.765	1.42E-04
		7/16/92	3.39E-08	1.28E-04	5.31E-07	1450	0.186	703.915	2.914	1.42E-04
		7/22/92	7.52E-08	4.86E-05	5.24E-07	3600	1.025	662.750	7.140	5.39E-05
		7/22/92	2.35E-08	5.55E-05	5.43E-07	1400	0.125	293.886	2.875	6.15E-05
		8/6/92	6.03E-08	6.92E-05	5.48E-07	3600	0.822	943.351	7.467	7.69E-05
		8/6/92	9.28E-08	6.60E-05	5.24E-07	1400	0.492	349.685	2.777	7.33E-05
		8/28/92	1.18E-07	7.03E-05	5.65E-07	3750	1.668	997.127	8.019	7.83E-05
	4 th	8/28/92	6.11E-08	3.40E-04	4.99E-07	1350	0.312	1737.523	2.550	3.79E-04
		9/16/92	5.79E-08	4.80E-04	5.43E-07	3700	0.811	6727.434	7.604	5.37E-04
		9/16/92	6.27E-08	4.54E-04	5.10E-07	1300	0.309	2236.045	2.509	5.08E-04
		10/5/92	1.10E-07	6.84E-05	4.74E-07	3600	1.499	932.153	6.459	7.67E-05
		10/5/92	4.31E-08	9.01E-05	5.42E-07	1300	0.212	443.255	2.667	1.01E-04
		11/9/92	7.76E-08	2.08E-04	3.99E-07	3500	1.028	2761.593	5.286	2.35E-04
		11/9/92	4.85E-09	4.77E-05	5.45E-07	1400	0.026	252.656	2.888	5.38E-05

9611260162 961118
PDR ADOCK 05000160
PDR

LIQUID WASTE DISCHARGE OF 1992

Dilution factor (cc/Qtr) =

2.514E+11

Total Activity Released / Quarter for 1992

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

1st QTR	7.2573	1134.7061	16.2208
2nd QTR	8.1294	4405.5348	26.9713
3rd QTR	7.9342	16520.7300	48.6210
4th QTR	2.7646	4389.6570	17.2993

Yearly Total =	26.0855	26450.6279	109.1125
Yearly Total (Ci) =	2.609E-05	2.645E-02	1.091E-04
AVG Yearly			
Conc. μ Ci/cc =	1.166E-07	1.182E-04	4.878E-07
Tech Spec			
μ Ci/cc =	3.000E-06	1.000E-01	5.000E-05
% Tech Spec =	3.89	0.12	0.98

Quarterly Volume Discharged from NNRC for 1992

	Gals	cc
1st QTR	9.7000E+03	3.6715E+07
2nd QTR	1.4200E+04	5.3747E+07
3rd QTR	2.5400E+04	9.6139E+07
4th QTR	9.8000E+03	3.7093E+07

Yearly Total =	5.9100E+04	2.2369E+08
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NOTE: Total Alpha radioactivity released and average

Concentration released is < MDA

Quarterly Average Release Based on the Ga Tech Dilution factor

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

1st QTR	2.8868E-11	4.5135E-09	6.4522E-11
2nd QTR	3.2336E-11	1.7524E-08	1.0728E-10
3rd QTR	3.1560E-11	6.5715E-08	1.9340E-10
4th QTR	1.0997E-11	1.7461E-08	6.8812E-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	1.9767E-07	3.0906E-05	4.4181E-07
2nd QTR	1.5125E-07	8.1968E-05	5.0182E-07
3rd QTR	8.2528E-08	1.7184E-04	5.0574E-07
4th QTR	7.4533E-08	1.1834E-04	4.6638E-07

Maximum quarterly Concentration for 1992

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

1st QTR	3.1800E-07	3.7777E-05	5.2350E-07
2nd QTR	4.6150E-07	1.1284E-04	6.2200E-07
3rd QTR	1.5000E-07	4.8038E-04	5.6500E-07
4th QTR	1.1000E-07	2.0846E-04	5.4500E-07