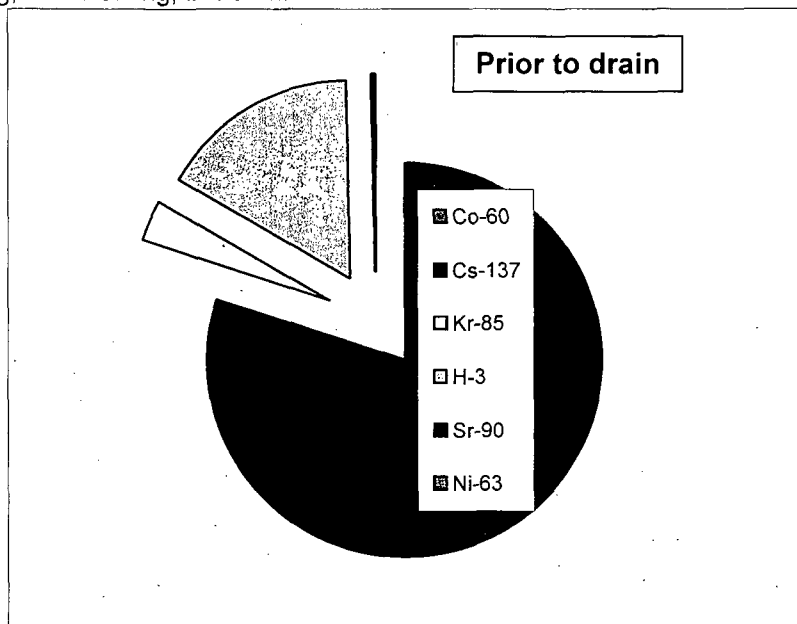


Draining Unit 1 Pool

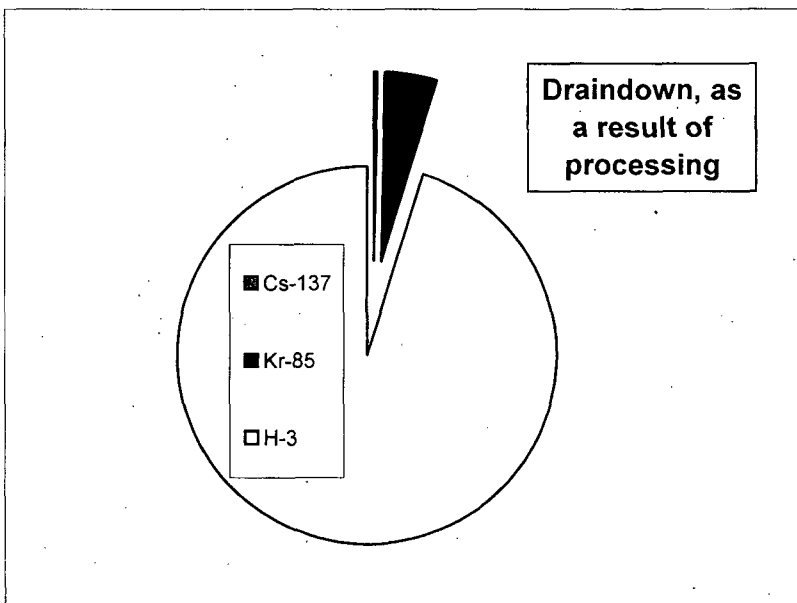
Concentrations in U1 Pool prior to cleanup, processing, and draining, in uCi/ml

isotope	uCi/ml	percent of total
Co-60	4.50E-07	0.02%
Cs-137	2.18E-03	79.85%
Kr-85	9.85E-05	3.61%
H-3	4.47E-04	16.37%
Sr-90	1.53E-06	0.06%
Ni-63	2.77E-06	0.10%
total	2.73E-03	100.00%



weighted avg effluent concentrations, uCi/ml

isotope	uCi/ml	percent of total
Co-60	none	none
Cs-137	1.74E-06	0.37%
Kr-85	2.06E-05	4.39%
H-3	4.47E-04	95.24%
Sr-90	none	none
Ni-63	none	none
total	4.69E-04	100.00%



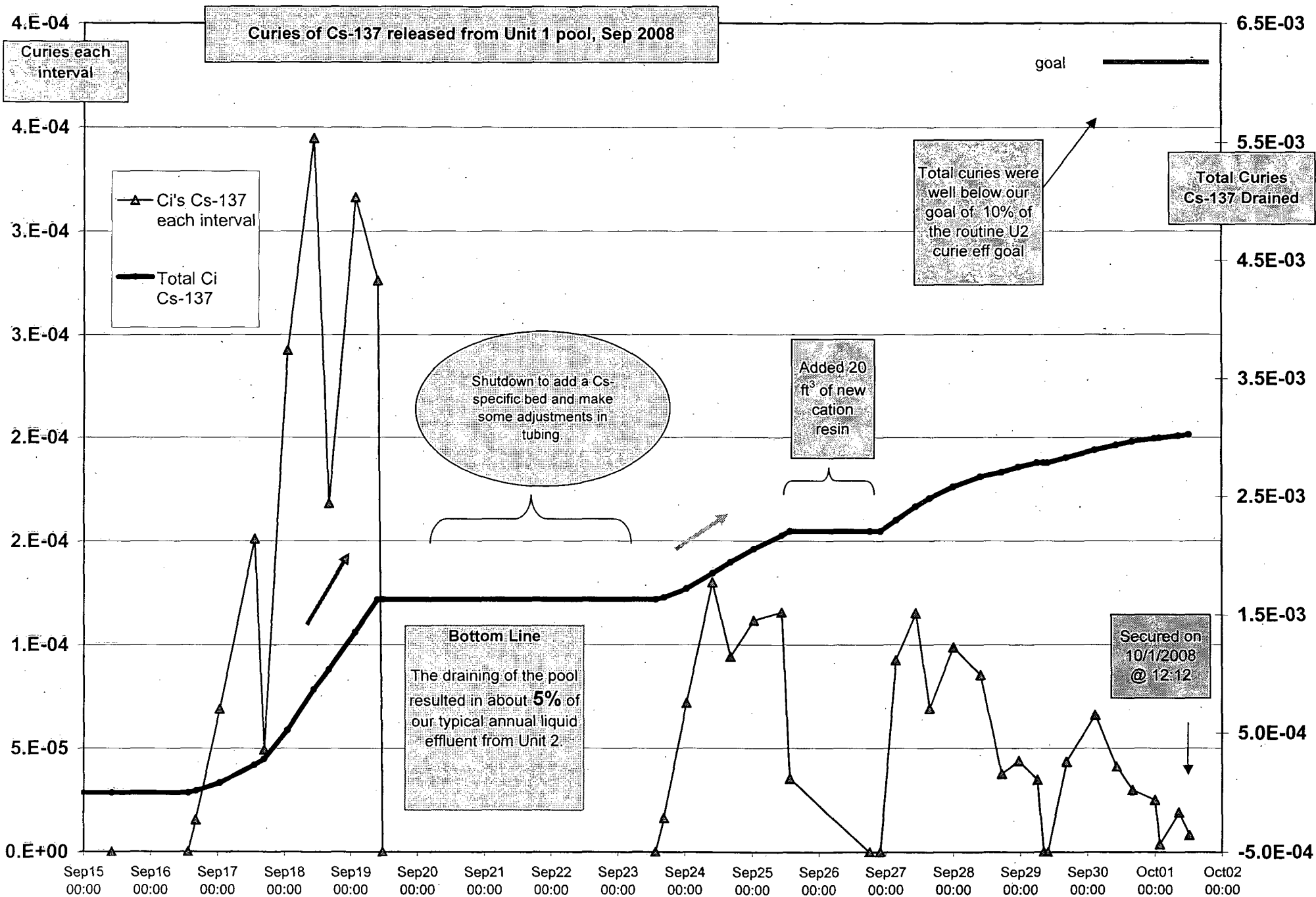
Total gallons released:
459,000

Curies Released:

0.0358	Kr-85
0.00301	Cs-137
0.776	H-3

	WB mrem	teen liver Crit Organ	
Total release dose data:	0.0000733	0.000116	(limits are 3 mrem WB and 10 mrem CO, annually)
percent of annual limit:	0.002	0.001	

This is approximately half the dose resulting from a typical routine monthly effluent from Unit 2, due to this release being only trace Cs-137 (the Sr-90 and Ni-63 was completely removed by ion exchange). There is no dose component from the Kr-85, and H-3 was lower than normal due to no distillate tanks.



Draining Unit 1 Pool

															compositing info		RET DAS	pounds boron
Date / Time	Sample ID	Total Activity	Cs-137	Kr-85	Boron ppm	ADC	Totalizer Reading	actual gpm	gallons released	total gal to date	Ci's Kr-85 each interval	Ci's Cs-137 each interval	Total Ci Cs-137	mls to add to 1L bottle	total gal			
09/13/08 10:45	183981	8.34E-05	6.49E-07	8.27E-05	29.0	1.05E-04	on recirc	0.0	0	0	0.00E+00	0.00E+00	0.00E+00	0.0	138,237	138,237 gal	0.0	
09/15/08 10:10	184181	9.92E-05	6.31E-07	9.81E-05	29.5	1.13E-04	on recirc	0.0	0	0	0.00E+00	0.00E+00	0.00E+00	0.0			0.0	
09/16/08 13:30	n/a	9.92E-05	6.31E-07	9.81E-05	29.5	1.13E-04	24.0	0.0	0	0	0.00E+00	0.00E+00	0.00E+00	0.0			0.0	
09/16/08 16:15	184420	6.74E-05	6.99E-07	6.65E-05	29.5	9.36E-05	5906.0	35.6	5,882	5,882	1.48E-03	1.56E-05	1.56E-05	42.6	comp	33.9 gpm	1.4	
09/17/08 00:40	184460	6.65E-05	1.05E-06	6.52E-05	32.8	8.88E-05	23280.0	34.4	17,374	23,256	4.29E-03	6.91E-05	8.46E-05	125.7	#1		4.7	
09/17/08 13:15	184592	4.54E-05	1.55E-06	4.36E-05	32.8	6.56E-05	49040.0	34.1	25,760	49,016	4.25E-03	1.51E-04	2.36E-04	186.3	1000.0 mls		7.0	
09/17/08 16:45	184620	3.70E-05	2.29E-06	3.46E-05	32.8	6.01E-05	54733.8	27.1	5,694	54,710	7.46E-04	4.94E-05	2.85E-04	41.2		3.12E-06 uCi/ml Cs	1.6	
09/18/08 01:00	184663	4.75E-05	3.57E-06	4.37E-05	32.2	5.31E-05	72673.0	36.2	17,939	72,649	2.97E-03	2.42E-04	5.28E-04	129.8			4.8	
09/18/08 10:25	184790	4.43E-05	4.62E-06	3.95E-05	32.2	4.53E-05	92389.0	34.9	19,716	92,365	2.95E-03	3.45E-04	8.72E-04	142.6	1000.0 mls	5.45E-05 uCi/ml Kr	5.3	
09/18/08 16:00	184921	5.14E-05	4.04E-06	4.72E-05	32.2	5.37E-05	103395.0	32.9	11,006	103,371	1.97E-03	1.68E-04	1.04E-03	79.6			3.0	
09/19/08 01:30	184940	7.94E-05	4.49E-06	7.46E-05	30.4	6.96E-05	122003.0	32.6	18,608	121,979	5.25E-03	3.16E-04	1.36E-03	134.6			4.7	
09/19/08 09:30	n/a	7.94E-05	4.49E-06	7.46E-05	30.4	6.96E-05	138261.0	33.9	16,258	138,237	4.59E-03	2.76E-04	1.63E-03	117.6	1000.0 mls	23.8 gpm	4.1	
09/19/08 11:30	184972	3.56E-05	4.40E-06	3.10E-05	30.4	3.89E-05	138261.0	0.0	0	138,237	0.00E+00	0.00E+00	1.63E-03	0.0			0.0	
09/23/08 13:30	185822	7.16E-05	1.08E-06	7.05E-05	30.3	7.14E-05	138261.0	0.0	0	138,237	0.00E+00	0.00E+00	1.63E-03	0.0			140,320	0.0
09/23/08 16:25	185894	4.47E-05	7.86E-07	4.37E-05	30.3	7.23E-05	143823.0	31.8	5,562	143,799	9.20E-04	1.65E-05	1.65E-05	39.6	comp #2	140,320 gal	1.4	
09/24/08 00:30	186062	2.34E-05	1.19E-06	2.21E-05	29.7	6.19E-05	159771.0	32.9	15,948	159,747	1.33E-03	7.18E-05	1.72E-03	113.7			3.9	
09/24/08 09:40	186122	2.06E-05	1.66E-06	1.88E-05	29.7	3.55E-05	180464.0	37.6	20,693	180,440	1.47E-03	1.30E-04	1.85E-03	147.5			1000.0 mls	5.1
09/24/08 16:10	186207	2.49E-05	1.80E-06	2.30E-05	29.7	4.06E-05	194280.0	35.4	13,816	194,256	1.20E-03	9.41E-05	1.95E-03	98.5	3.4			
09/25/08 00:30	186263	1.98E-05	1.69E-06	1.79E-05	31.2	3.41E-05	211743.0	34.9	17,463	211,719	1.18E-03	1.12E-04	2.06E-03	124.5	1.60E-06 uCi/ml Cs	4.5		
09/25/08 10:35	186603	1.34E-05	1.41E-06	1.19E-05	31.2	1.79E-05	233410.0	35.8	21,667	233,386	9.76E-04	1.16E-04	2.17E-03	154.4		5.6		
09/25/08 13:30	n/a	1.34E-05	1.41E-06	1.19E-05	31.2	1.79E-05	240055.0	38.0	6,645	240,031	2.99E-04	3.55E-05	2.21E-03	47.4	1000.0 mls	1.39E-05 uCi/ml Kr	1.7	
09/26/08 18:20	n/a	1.34E-05	1.41E-06	1.19E-05	31.2	1.79E-05	240055.0	0.0	0	240,031	0.00E+00	0.00E+00	2.21E-03	0.0			0.0	
09/26/08 22:00	186942	4.02E-05	2.25E-06	3.78E-05	29.8	5.49E-05	240055.0	0.0	0	240,031	0.00E+00	0.00E+00	2.21E-03	0.0			0.0	
09/27/08 03:30	187000A	2.01E-06	2.01E-06	< mda	30.4	3.87E-06	252215.0	36.8	12,160	252,191	0.00E+00	9.25E-05	2.30E-03	86.7	181,260	181,260 gal	3.1	
09/27/08 10:45	187041A	3.37E-06	1.99E-06	< mda	30.4	3.85E-06	267525.0	35.2	15,310	267,501	0.00E+00	1.15E-04	2.42E-03	109.1			3.9	
09/27/08 15:45	187082A	1.65E-06	1.65E-06	< mda	30.4	3.42E-06	278581.0	36.9	11,056	278,557	0.00E+00	6.91E-05	2.49E-03	78.8			2.8	
09/28/08 00:00	187120A	1.57E-06	1.57E-06	< mda	29.9	2.25E-06	295190.0	33.6	16,609	295,166	0.00E+00	9.87E-05	2.58E-03	91.6	comp #3	35.9 gpm	4.1	
09/28/08 09:40	187222A	1.07E-06	1.07E-06	< mda	29.9	1.65E-06	316250.0	36.3	21,060	316,226	0.00E+00	8.53E-05	2.67E-03	116.2			5.2	
09/28/08 17:18	187283	6.12E-07	6.12E-07	< mda	29.9	1.01E-06	332505.0	35.5	16,255	332,481	0.00E+00	3.77E-05	2.71E-03	89.7			4.0	
09/28/08 23:30	187322A	9.11E-07	9.11E-07	< mda	29.9	2.23E-06	345252.0	34.3	12,747	345,228	0.00E+00	4.40E-05	2.75E-03	70.3	902.6 mls	7.83E-07 uCi/ml Cs	3.2	
09/29/08 06:05	187421	6.45E-07	6.45E-07	< mda	29.9	2.23E-06	359484.0	36.0	14,232	359,460	0.00E+00	3.47E-05	2.79E-03	78.5			3.5	
09/29/08 08:25	187422	1.43E-06	1.43E-06	< mda	29.9	2.23E-06	359484.0	0.0	0	359,460	0.00E+00	0.00E+00	2.79E-03	0.0			0.0	
09/29/08 09:50	n/a	1.43E-06	1.43E-06	< mda	29.9	2.23E-06	359484.0	0.0	0	359,460	0.00E+00	0.00E+00	2.79E-03	0.0			0.0	
09/29/08 16:30	187541	8.36E-07	8.36E-07	< mda	29.9	1.34E-06	373248.0	34.4	13,764	373,224	0.00E+00	4.36E-05	2.83E-03	75.9			3.4	
09/30/08 02:40	187580	8.11E-07	8.11E-07	< mda	28.0	1.30E-06	394733.0	35.2	21,485	394,709	0.00E+00	6.60E-05	2.90E-03	118.5			5.0	
09/30/08 10:20	187746	7.03E-07	7.03E-07	< mda	28.0	1.30E-06	410210.0	33.6	15,477	410,186	0.00E+00	4.12E-05	2.94E-03	85.4	902.6 mls	3.02E-03 Cs-137 Ci	3.6	
09/30/08 16:00	187841	6.53E-07	6.53E-07	< mda	28.0	1.70E-06	422275.0	35.5	12,065	422,251	0.00E+00	2.98E-05	2.97E-03	66.6			2.8	
10/01/08 00:00	187929	3.75E-07	3.75E-07	< mda	26.0	1.06E-06	439937.0	36.8	17,662	439,913	0.00E+00	2.51E-05	2.99E-03					
10/01/08 01:40	187929	3.75E-07	3.75E-07	< mda	26.0	1.06E-06	442611.0	26.7	2,674	442,587	0.00E+00	3.80E-06	3.00E-03	14.8			0.6	
10/01/08 08:30	188140	4.23E-07	4.23E-07	< mda	26.0	1.17E-06	454619.0	29.3	12,008	454,595	0.00E+00	1.92E-05	3.01E-03	66.2	28.8	1.1	2.6	
10/01/08 12:12	secured	4.23E-07	4.23E-07	< mda	26.0	1.17E-06	459841.0	23.5	5,222	459,817	0.00E+00	8.36E-06	3.02E-03	28.8			1.1	

3rd week breakdown	Ci Cs-137	gallons	uCi/ml
Sep	5.06E-04	1.61E+05	8.30E-07
Oct	3.14E-05	1.99E+04	4.17E-07
total	5.37E-04	1.81E+05	conc

pounds of Boron

36.7	31.8			138,237	2.85E-02		1.63E-03	comp 1	w/e 9/20
35.5	30.4	avg ppm B		140,320	7.39E-03		8.52E-04	comp 2	w/e 9/27
39.3	26.0			181,260	0.00E+00		5.37E-04	comp 3	w/e 10/4
111.5	29.1	gallons released		459,817	3.59E-02	Kr-85 Ci	3.02E-03		

