

METALS ANALYSES FOR CONDITION 3 (BEGINNING, COMPOSITE, END)
all units in ppm

	KILN FEED			BYPASS DUST		
	Begin 3 grab	Cond 3 comp	End 3 grab	Begin 3 grab	Cond 3 comp	End 3 grab
Antimony	1.7	1.7	1.7	1.7	1.7	1.7
Arsenic	3.794'	4.237	4.46	9.961	8.573	10
Barium	122.506	130.625	124.835	141.11	131.346	137.969
Beryllium	0.196	0.37	0.206	0.52	0.542	0.597
Cadmium	0.15	0.15	0.15	1.041	0.361	0.853
Chromium	25.844	28.785	27.801	47.138	48.555	48.805
Lead	10.173	22.419	7.29	48.005	85.953	81.357
Mercury	0.06	0.06	0.1	0.06	0.06	0.06
Nickel	6.795	7.225	7.455	7.849	7.498	7.679
Selenium	0.5	0.5	0.5	1.782	6.775	6.57
Silver	0.15	0.15	0.25	0.954	2.529	1.365
Thallium	2.396	2.041	2.265	7.589	14.634	13.695
Vanadium	20.503	18.857	20.346	25.889	23.397	25.725
Zinc	15.122	15.532	14.58	27.363	25.429	27.517

TABLE 4- KILN FEED/BYPASS DUST

METALS EMISSIONS			
3 stacks, pounds per hour			
Cond 3			
	run 1	run2	run3
Antimony	0.000221	0.000221	0.000222
Arsenic	0.000311	0.000184	0.000176
Barium	0.01737	0.003023	0.003389
Beryllium	1.1E-05	4.93E-05	9E-06
Cadmium	0.000484	0.000424	0.000392
Chromium	0.002136	0.001614	0.001391
Lead	0.003799	0.002621	0.002053
Mercury	0.001824	0.002934	0.003167
Nickel	0.001558	0.001171	0.001174
Selenium	0.000243	0.00013	0.00072
Silver	0.000391	0.00039	0.000392
Thallium	0.000496	0.00044	0.000341
Vanadium	0.001559	0.001597	0.001565
Zinc	0.01302	0.020006	0.004537

TABLE 5 - 3 STACK METALS EMISSIONS

Selected Semivolatile and Volatile PIC emissions

3 Conditions, Main & Bypass

		Condition 1		Condition 2		Condition 3	
compound		main	bypass	main	bypass	main	bypass
		lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
semiVol	PHENOL	0.0019	0.00032	0.0013	0.00049	8.1 E-05	3.4E-05
	BENZOIC ACID	0.164	0.037	0.056	0.052	0.31	0.046
	NAPHTHALENE	0.19	0.043	0.097	0.041	0.14	0.051
	4-NITROPHENOL	0.0023	0.00022	0.00036	0.00026	0.00039	0.000102
	DIBENZOFURAN	0.0025	0.00073	0.0622	2.5E-05	0.00044	1.7E-05
Vol	BROMOMETHANE	0.0539	0.0023	0.049	0.0014	0.024	0.00059
	BENZENE	0.101	0.002	0.067	0.0018	0.048	0.0023
	TOLUENE	0.034	0.004	0.0054	0.01	0.0052	0.034
		Cond 1	Cond 2	Cond 3			
main total		0.5496	0.29826	0.528111			
bypass total		0.08957	0.106975	0.134043			
TOTAL		0.63917	0.405235	0.662154			

TABLE 6 - EIGHT PICS.

The ISCLT model outputs, a
 *with chloromethane" comparison of risks showing first condition 1/run2,
 then condition 3/run1, and last, the difference c1r2 - c3r1.
 There was also a Without chloromethane" run.

Note: disregard and discard any similar previous work using chloromethane.

DIVIDE "CONCENTRATIONS" BY 10 TO GET RISK PER MILLION

SW-LT2.OUT: Condition 1 Run 2, With Chloromethane: hwf, tdf, coal

Degr/Dist	600m	700m	800m	900	1000	1100	1200	1300	1400
337.5	1.399754	1.295866	1.242854	1.204966	1.166461	1.136686	1.108714	1.0783	1.048901
315	1.299509	1.226345	1.195878	1.177563	1.157209	1.138285	1.119032	1.097614	1.069395
292.5	0.633258	0.650819	0.665004	0.678159	0.679699	0.681107	0.680225	0.676259	0.670807
270	0.858905	0.866781	0.88519	0.892582	0.883929	0.8775	0.870281	0.859431	0.848442
247.5	1.220251	1.15768	1.108481	1.0708	1.031215	0.993959	0.95934	0.925535	0.890738
225	1.502476	1.382164	1.328803	1.265757	1.208197	1.151639	1.103671	1.057666	1.011461
202.5	1.682631	1.558689	1.507721	1.464152	1.406525	1.350826	1.299323	1.249464	1.202062
180	1.698258	1.526141	1.470653	1.426483	1.389536	1.349379	1.309463	1.270003	1.227309
157.5	1.204231	1.051817	0.99734	0.953195	0.921805	0.897775	0.873775	0.852057	0.82753
135	1.520338	1.317529	1.320189	1.248573	1.213849	1.179533	1.144508	1.109764	1.073429
112.5	4.778299	4.065294	3.742799	3.492541	3.275937	3.08633	2.919745	2.766102	2.628317
90	2.894462	2.523566	2.509964	2.482859	2.399646	2.347562	2.288064	2.227739	2.16709
67.5	3.977779	3.437505	3.230448	3.044071	2.880413	2.7335	2.601353	2.477424	2.359536
4s	5.056458	4.544807	4.299011	4.047732	3.820773	3.607905	3.417475	3.23603	3.067966
22.5	5.490741	5.074228	4.852729	4.656251	4.454587	4.27324	4.099592	3.934392	3.767254
0	3.525472	3.274604	3.119195	2.991068	2.886946	2.784532	2.691174	2.602513	2.509453

SW-LT5.OUT: Condition 3 Run 1, With Chloromethane: coal only

Degr/Dist	600m	700	800	900	1000	1100	1200	1300	1400
337.5	1.068598	0.97803	0.932039	0.896819	0.862311	0.833375	0.807069	0.781036	0.754105
315	1.090341	0.999693	0.963447	0.93423	0.906495	0.882079	0.858892	0.835402	0.80777
292.5	0.514814	0.529659	0.541864	0.550315	0.553214	0.552837	0.551433	0.547128	0.542028
270	0.67961	0.680597	0.695337	0.701968	0.697585	0.692553	0.687208	0.678778	0.67033
247.5	0.835279	0.782559	0.748404	0.719379	0.690332	0.664176	0.639684	0.61609	0.59107
225	0.993529	0.910597	0.872089	0.828207	0.788249	0.750402	0.718232	0.68762	0.656791
202.5	1.134541	1.044272	1.006705	0.977018	0.93796	0.899964	0.864593	0.830698	0.797359
180	1.267772	1.127201	1.086617	1.049161	1.016643	0.984077	0.952185	0.921274	0.886662
157.5	0.944133	0.814003	0.772904	0.738743	0.710925	0.687732	0.665569	0.645769	0.623211
135	1.162613	0.995555	0.995404	0.937721	0.905647	0.876052	0.846828	0.818488	0.78783
112.5	2.727509	2.308258	2.170634	2.069693	1.976393	1.889224	1.811544	1.7374	1.668377
90	2.175785	1.865644	1.865245	1.851478	1.806816	1.772032	1.73311	1.691798	1.650021
67.5	2.617262	2.215847	2.081508	1.962874	1.861565	1.769166	1.68554	1.60743	1.530331
4s	3.189434	2.827925	2.679727	2.527025	2.389751	2.26276	2.148885	2.041947	1.936739
22.5	3.745235	3.353807	3.193669	3.054493	2.919861	2.798887	2.68504	2.577956	2.464499
0	2.550456	2.292699	2.186657	2.094179	2.014449	1.938944	1.870207	1.805752	1.734751

TABLE 7 - PRELIMINARY INHALATION RISK