

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	3027
4	EPA ID No.	TXD078432457
5	Facility Name	Celanese LTD.
6	Facility Location	
7	City	Pasadena
8	State	TX
9	Unit ID Name/No.	Liquid Incinerator MN-460
10	Other Sister Facilities	
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Liquid injection
14	Combustor Characteristics	
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	WS
18	APCS General Class	LEWS
19	APCS Characteristics	Scrubber
20	Hazardous Wastes	Liq
21	Haz Waste Description	Waste water, formaldehyde
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	4.45
26	Height (ft)	88
27	Gas Velocity (ft/sec)	24.6
28	Gas Temperature (°F)	160
29		
30	Permitting Status	Tier I for all metals
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	3027C1	
4		
5	Report Name/Date	RCRA Trial Burn Test Report, January 1999
6	Report Prepare	AirSource Technologies, Inc.
7	Testing Firm	AirSource Technologies, Inc.
8	Testing Dates	September 24-25, 1998
9	Cond Dates	Sep-98
10	Condition Descr	Trial burn, low temp
11	Content	PM, CO, DRE, HCl/Cl2
12		
13	3027C2	
14		
15	Report Name/Date	RCRA Trial Burn Test Report, January 1999
16	Report Prepare	AirSource Technologies, Inc.
17	Testing Firm	AirSource Technologies, Inc.
18	Testing Dates	September 26-29
19	Cond Dates	Sep-98
20	Condition Descr	Trial burn, high temp
21	Content	PM, CO, metals, HCl/Cl2

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions											
2												
3		Comments	Units	7% O2								
4												
5	3027C1					R1		R2		R3		Cond Avg
6												
7	PM	E1	gr/dscf	y		0.0052		0.0039		0.0037		0.0043
8	PM (total)	E1	gr/dscf	y		0.0059		0.0042		0.004		0.0047
9	CO (RA)	E1	ppmv	y		4.3		3.9		3.9		4.0
10	HC (RA)		ppmv	n		0.6		0.5		0.3		0.5
11	NOx		ppmv	n		282.6		277.8		286.7		282.4
12	SO2		ppmv	n		0.2		0.2		0.4		0.3
13												
14	HCl		lb/hr	n		0.00384		0.00352		0.0298		
15	Cl2		lb/hr	n		0.0233		0.0221		0.415		
16												
17	POHC DRE	Formaldehyde										
18	POHC Feedrate		lb/hr			282.2		220.4		282.5		
19	Emission Rate	E2	lb/hr			0.00133		0.00098		0.00155		
20	DRE	E2	%			99.9995		99.9996		99.9994		
21												
22	Sampling Train	PM, HCl/Cl2	E1									
23	Stack Gas Flowrate		dscfm			16686		17084		16867		16879.0
24	O2		%			4.19		4.4		4.23		4.3
25	Moisture		%			14.07		13.34		13.98		13.8
26	Temperature		°F			161		157		156		158.0
27												
28	Sampling Train	DRE	E2									
29	Stack Gas Flowrate		dscfm			16710		16447		16121		16426.0
30	O2		%			4.19		4.4		4.23		4.3
31	Moisture		%			14.25		13.98		14.32		14.2
32	Temperature		°F			161		157		155		157.7
33												
34	HC (RA)	E1	ppmv	y		0.50		0.42		0.25		0.4
35	NOx	E1	ppmv	y		235.36		234.29		239.34		236.3
36	SO2	E1	ppmv	y		0.17		0.17		0.33		0.2
37												
38	HCl	E1	ppmv	y		0.034		0.031		0.263		0.11
39	Cl2	E1	ppmv	y		0.26		0.22		4.51		1.66
40	Total Chlorine	E1	ppmv	y		0.55		0.47		9.27		3.43
41												
42	3027C2					R1		R2		R3		Cond Avg
43												
44	PM	E1	gr/dscf	y		0.0124		0.0089		0.0084		0.0099
45	PM (total)	E1	gr/dscf	y		0.0126		0.0092		0.0085		0.0101
46	CO (RA)	E1	ppmv	y		3.2		2.9		2.8		2.97
47	HC (RA)		ppmv	n		0.5		0.2		0.1		0.27
48	NOx		ppmv	n		295.4		294.7		293.4		
49	SO2		ppmv	n		0.1		0.1		0.2		
50												
51	HCl		lb/hr	n		0.024		0.0189		0.0185		
52	Cl2		lb/hr	n		22.366		0.589		0.634		
53												
54	Aluminum		ug/dscm	n		402.959		353.458		312.781		
55	Antimony		ug/dscm	n		0.306		0.295		0.436		
56	Arsenic		ug/dscm	n		0.167		0.161		0.163		
57	Barium		ug/dscm	n		19.016		18.96		17.778		
58	Beryllium		ug/dscm	n		0.014		0.013		0.014		
59	Boron		ug/dscm	n		110.584		127.293		104.578		
60	Cadmium		ug/dscm	n		0.667		0.67		0.626		
61	Calcium		ug/dscm	n		76.943		76.07		72.9		
62	Chromium		ug/dscm	n		60.068		46.61		51.2		
63	Cobalt		ug/dscm	n		0.556		0.804		0.545		
64	Copper		ug/dscm	n		3.615		3.214		2.996		
65	Iron		ug/dscm	n		79.521		72.741		76.84		
66	Lead		ug/dscm	n		0.854		0.321		0.545		
67	Lithium		ug/dscm	n		3.337		2.786		3.159		
68	Magnesium		ug/dscm	n		163.798		56.248		34.745		
69	Manganese		ug/dscm	n		99.28		95.095		104.033		
70	Mercury		ug/dscm	n		1.224		1.179		1.198		
71	Molybdenum		ug/dscm	n		97.889		80.63		85.242		

	B	C	D	E	F	G	H	I	J	K	L	M
72	Nickel		ug/dscm	n		19.189		11.251		13.072		
73	Phosphorus		ug/dscm	n		7276.43		6742.878		6864.87		
74	Potassium		ug/dscm	n		520.037		420.56		484.763		
75	Selenium		ug/dscm	n		0.306		0.295		0.3		
76	Silver		ug/dscm	n		0.362		0.241		0.245		
77	Sodium		ug/dscm	n		1057.552		858.358		1047.687		
78	Strontium		ug/dscm	n		0.834		0.804		0.817		
79	Thallium		ug/dscm	n		0.306		0.295		0.3		
80	Tin		ug/dscm	n		3.337		3.75		3.268		
81	Titanium		ug/dscm	n		1.669		1.607		1.634		
82	Vanadium		ug/dscm	n		3.059		2.947		2.996		
83	Zinc		ug/dscm	n		9.227		11.829		15.009		
84	Chromium (Hex)		ug/dscm	n		14.9		15.2		23		
85												
86												
87	Sampling Train	PM, HCl/Cl2	E1									
88	Stack Gas Flowrate		dscfm			16466		17545		17116		17042.3
89	O2		%			5.1		5.06		4.93		5.03
90	Moisture		%			15.06		15.13		14.42		14.9
91	Temperature		°F			158		158		160		158.7
92												
93	Sampling Train	metals	E2									
94	Stack Gas Flowrate		dscfm			15893		16135		16251		16093.0
95	O2		%			3.71		4.77		5.02		4.5
96	Moisture		%			15.16		14.3		12.24		13.9
97	Temperature		°F			161		159		159		159.7
98												
99	Sampling Train	Cr+6	E3									
100	Stack Gas Flowrate		dscfm			15634		16699		16071		16134.7
101	O2		%			3.7		5		4.6		4.4
102	Moisture		%			14.61		13.2		12.98		13.6
103	Temperature		°F			160		96		87		114.3
104												
105	HC (RA)	E1	ppmv	y		0.44		0.18		0.09		0.2
106	NOx	E1	ppmv	y		260.10		258.83		255.61		258.2
107	SO2	E1	ppmv	y		0.09		0.09		0.17		0.1
108												
109	HCl	E1	ppmv	y		0.23		0.17		0.17		0.2
110	Cl2	E1	ppmv	y		109.81		2.71		2.96		38.5
111	Total Chlorine	E1	ppmv	y		219.9		5.6		6.1		77.2
112												
113	Aluminum	E2	ug/dscm	y		347.6		309.7		265.4		307.5
114	Antimony	E2	ug/dscm	y		0.3		0.3		0.4		0.3
115	Arsenic	E2	ug/dscm	y		0.1		0.1		0.1		0.1
116	Barium	E2	ug/dscm	y		16.4		16.6		15.1		16.0
117	Beryllium	E2	ug/dscm	y		0.0		0.0		0.0		0.0
118	Boron	E2	ug/dscm	y		95.4		111.5		88.7		98.5
119	Cadmium	E2	ug/dscm	y		0.6		0.6		0.5		0.6
120	Calcium	E2	ug/dscm	y		66.4		66.6		61.9		65.0
121	Chromium	E2	ug/dscm	y		51.8		40.8		43.4		45.4
122	Cobalt	E2	ug/dscm	y		0.5		0.7		0.5		0.5
123	Copper	E2	ug/dscm	y		3.1		2.8		2.5		2.8
124	Iron	E2	ug/dscm	y		68.6		63.7		65.2		65.8
125	Lead	E2	ug/dscm	y		0.7		0.3		0.5		0.5
126	Lithium	E2	ug/dscm	y		2.9		2.4		2.7		2.7
127	Magnesium	E2	ug/dscm	y		141.3		49.3		29.5		73.4
128	Manganese	E2	ug/dscm	y		85.6		83.3		88.3		85.7
129	Mercury	E2	ug/dscm	y		1.1		1.0		1.0		1.0
130	Molybdenum	E2	ug/dscm	y		84.4		70.6		72.3		75.8
131	Nickel	E2	ug/dscm	y		16.6		9.9		11.1		12.5
132	Phosphorus	E2	ug/dscm	y		6276.6		5907.4		5824.7		6002.9
133	Potassium	E2	ug/dscm	y		448.6		368.5		411.3		409.4
134	Selenium	E2	ug/dscm	y		0.3		0.3		0.3		0.3
135	Silver	E2	ug/dscm	y		0.3		0.2		0.2		0.2
136	Sodium	E2	ug/dscm	y		912.2		752.0		888.9		851.1
137	Strontium	E2	ug/dscm	y		0.7		0.7		0.7		0.7
138	Thallium	E2	ug/dscm	y		0.3		0.3		0.3		0.3
139	Tin	E2	ug/dscm	y		2.9		3.3		2.8		3.0
140	Titanium	E2	ug/dscm	y		1.4		1.4		1.4		1.4
141	Vanadium	E2	ug/dscm	y		2.6		2.6		2.5		2.6
142	Zinc	E2	ug/dscm	y		8.0		10.4		12.7		10.4

	B	C	D	E	F	G	H	I	J	K	L	M
143	Chromium (Hex)	E3	ug/dscm	y		12.9		13.3		19.5		15.2
144												
145	SVM	E2	ug/dscm	y		1.3		0.9		1.0		1.1
146	LVM	E2	ug/dscm	y		52.0		41.0		43.6		45.5

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Feedstream 2																						
2																							
3	3027C1	Trial burn																					
4	Feedstream Number																						
5	Feed Class																						
6	Feed Class 2																						
7	Feedstream Description																						
8	Feed Rate																						
9	Heating Value																						
10	Thermal Feedrate																						
11	Specific Gravity																						
12	Density																						
13	Viscosity																						
14	Ash																						
15	Chlorine																						
16	Antimony																						
17	Arsenic																						
18	Barium																						
19	Beryllium																						
20	Cadmium																						
21	Chromium																						
22	Lead																						
23	Mercury																						
24	Silver																						
25	Thallium																						
26	Stack Gas Flowrate																						
27	Oxygen																						
28	Thermal Feedrate																						
29	Estimated Firing Rate																						
30																							
31																							
32																							
33																							
34	Feedrate MTEC Calculators																						
35	Ash																						
36	Chlorine																						
37	Antimony																						
38	Arsenic																						
39	Barium																						
40	Beryllium																						
41	Cadmium																						
42	Chromium																						
43	Lead																						
44	Mercury																						
45	Silver																						
46	Thallium																						
47	SVM																						
48	LVM																						
49																							
50	3027C2	Trial burn																					
51	Feedstream Number																						
52	Feed Class																						
53	Feed Class 2																						
54	Feedstream Description																						
55	Feed Rate																						
56	Heating Value																						
57	Thermal Feedrate																						
58	Specific Gravity																						
59	Density																						
60																							

	B	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1	Feedstream 2																				
2																					
3	3027C1		R3	Cond Avg		R1				R2	R3		Cond Avg		R1		R2		R3		Cond Avg
4																					
5	Feedstream Number		F3	F3																	
6	Feed Class		Liq HW	Liq HW																	
7	Feed Class 2																				
8	Feedstream Description		Organic Waste B	Organic Waste B																	
9	Feed Rate		2938.8																		
10	Heating Value		9440																		
11	Thermal Feedrate																				
12	Specific Gravity		1.09																		
13	Density		1.09																		
14	Viscosity		3.64																		
15	Ash		0.37																		
16	Chlorine		23.34																		
17	Antimony		0.18																		
18	Arsenic		0.18																		
19	Barium		0.61																		
20	Beryllium		0.01																		
21	Cadmium		0.02																		
22	Chromium		5.1																		
23	Lead		0.18																		
24	Mercury		0.03																		
25	Silver		0.03																		
26	Thallium		0.31																		
27	Stack Gas Flowrate		16867.0		16879.0																
28	Oxygen		4.2		4.3																
29																					
30																					
31	Thermal Feedrate		27.7		27.7																
32	Estimated Firing Rate																				
33																					
34	Feedrate MTEC Calculat																				
35	Ash		143.9		313.1		937.2	21.7	303.9	18.2	347.7	15	492.6	10	937.2	22	271.0	18	316.0	15	492.6
36	Chlorine		907.7		694.1		6375.3		5701.7		6983.1		6353.4		6375.3		5701.7		6983.1		6353.4
37	Antimony		7.0		7.7		19.4	100	19.2	100	17.6	97	18.7	92	19.4	100	18.4	96	8.8	97	18.7
38	Arsenic		7.0		7.7		94.9	100	18.7	96	17.6	97	18.4	95	18.9	100	9.4	96	8.8	97	18.4
39	Barium		23.7		25.5		95.9	100	62.2	96	60.0	97	61.3	96	61.7	100	31.1	96	30.0	97	61.3
40	Beryllium		0.4		0.4		100	100	0.9	100	0.9	100	0.9	100	0.9	100	0.5	100	0.5	100	0.9
41	Cadmium		0.8		0.8		100	100	1.8	100	1.8	100	1.8	100	1.8	100	0.9	100	0.9	100	1.8
42	Chromium		198.3		179.6		360.2		342.8		376.5		359.9		360.2		342.8		376.5		359.9
43	Lead		7.0		7.7		100	100	18.6	100	17.5	100	18.2	100	18.6	100	9.3	100	8.8	100	18.2
44	Mercury		1.2		1.2		100	100	2.7	100	2.8	100	2.7	100	2.7	100	1.4	100	1.4	100	2.7
45	Silver		1.2		1.2		100	100	2.8	100	2.8	100	2.8	100	2.8	100	1.4	100	1.4	100	2.8
46	Thallium		12.1		12.8		100	100	31.0	100	29.9	100	30.7	100	31.4	100	15.5	100	14.9	100	30.7
47	SVM		7.78		8.5		100	100	20.4	100	19.3	100	20.1	100	20.4	100	20.4	100	19.3	100	20.1
48	LVM		205.7		187.7		380.1		362.5		395.1		379.2		380.1		362.5		395.1		379.2
49																					
50	3027C2		R3	Cond Avg		R1			R2		R3		Cond Avg		R1		R2		R3		Cond Avg
51																					
52	Feedstream Number		F3	F3																	
53	Feed Class		Liq HW	Liq HW																	
54	Feed Class 2																				
55	Feedstream Description		Organic Waste B	Organic Waste B																	
56	Feed Rate		3036.1																		
57	Heating Value		9210																		
58	Thermal Feedrate																				
59	Specific Gravity		1.08																		
60	Density		1.08																		

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
61	Viscosity	cSt										3.71		3.75		3.75				3.56		3.63
62	Ash	%	nd	0.04 nd	0.03 nd	0.03 nd	0.03 nd	0.03				0.33		0.27		0.26				0.56		0.53
63	Chlorine	mg/kg		18.25	25.7	17.7	17.7					78.43		50.14		16.57				56.65		27.85
64	Antimony	mg/kg	nd	0.003 nd	0.003 nd	0.003	0.003	0.003		nd	nd	0.19 nd		0.19 nd		0.19		nd	nd	0.2 nd		0.19
65	Arsenic	mg/kg	nd	0.003	0.003 nd	0.003	0.003	0.003		nd	nd	0.19 nd		0.19 nd		0.19		nd	nd	0.2 nd		0.19
66	Barium	mg/kg	nd	0.014	0.012	0.011	0.011	0.011		nd	nd	0.64 nd		0.63 nd		0.63		nd	nd	0.67 nd		0.62
67	Beryllium	mg/kg	nd	0.000 nd	0.000 nd	0.000	0.000	0.000		nd	nd	0.01 nd		0.01 nd		0.01		nd	nd	0.01 nd		0.01
68	Cadmium	mg/kg	nd	0.000	0.000 nd	0.000	0.000	0.000		nd	nd	0.02 nd		0.02 nd		0.02		nd	nd	0.02 nd		0.02
69	Chromium	mg/kg		0.342	0.343	0.353	0.353					1.9		1.9		1.7				4.3		5.2
70	Lead	mg/kg	nd	0.003 nd	0.003 nd	0.003	0.003	0.003		nd	nd	0.19 nd		0.19 nd		0.19		nd	nd	0.2 nd		0.19
71	Mercury	mg/kg	nd	0.000 nd	0.000 nd	0.000	0.000	0.000		nd	nd	0.03 nd		0.03 nd		0.03		nd	nd	0.03 nd		0.03
72	Silver	mg/kg	nd	0.001	0.001 nd	0.001	0.001	0.001		nd	nd	0.03 nd		0.03 nd		0.03		nd	nd	0.03 nd		0.03
73	Thallium	mg/kg	nd	0.005 nd	0.006 nd	0.005	0.005			nd	nd	0.32 nd		0.32 nd		0.32		nd	nd	0.33 nd		0.31
74																						
75	Stack Gas Flowrate	dscfm		16466.0	17042.3	17116.0	17116.0			17042.3	17042.3	16466.0		17545.0		17116.0		17042.3		16466.0		17545.0
76	Oxygen	%		5.1	5.1	4.9	4.9			5.0	5.0	5.1		5.1		4.9		5.0		5.1		5.1
77																						
78	Thermal Feedrate	MMBtu/hr										29.0		27.6		28.3		28.3		30.5		30.3
79	Estimated Firing Rate	MMBtu/hr																				
80																						
81	Feedrate MTEC Calculations																					
82	Ash	mg/dscm	100	58.1 100	35.6 100	38.0 100	38.0 100			43.9	43.9	191.5		148.1		147.3		162.3		263.0		220.7
83	Chlorine	ug/dscm		4547.8	5710.5	3844.4	3844.4			4700.9	4700.9	4402.0		2641.9		886.5		2643.5		2305.3		1089.4
84	Antimony	ug/dscm	100	0.8 100	0.8 100	0.7 100	0.7 100			0.7 100	0.7 100	10.7 100		10.0 100		10.2 100		10.3 100		8.1 100		7.4
85	Arsenic	ug/dscm	100	0.8 100	0.8 100	0.7 100	0.7 100			0.7 100	0.7 100	10.7 100		10.0 100		10.2 100		10.3 100		8.1 100		7.4
86	Barium	ug/dscm	100	3.4	2.6	2.3	2.3			2.8 100	2.8 100	35.9 100		33.2 100		33.7 100		34.3 100		27.3 100		24.3
87	Beryllium	ug/dscm	100	0.0 100	0.0 100	0.0 100	0.0 100			0.0 100	0.0 100	0.6 100		0.5 100		0.5 100		0.5 100		0.4 100		0.4
88	Cadmium	ug/dscm		0.0	0.0	0.0	0.0			0.0 100	0.0 100	1.1 100		1.1 100		1.1 100		1.1 100		0.8 100		0.8
89	Chromium	ug/dscm		85.3	76.4	76.7	76.7			79.4	79.4	106.6		100.1		90.9		99.2		175.0		203.4
90	Lead	ug/dscm	100	0.7 100	0.7 100	0.6 100	0.6 100			0.7 100	0.7 100	10.7 100		10.0 100		10.2 100		10.3 100		8.1 100		7.4
91	Mercury	ug/dscm	100	0.0 100	0.0 100	0.0 100	0.0 100			0.0 100	0.0 100	1.7 100		1.6 100		1.6 100		1.6 100		1.2 100		1.2
92	Silver	ug/dscm	100	0.1 100	0.3 100	0.1 100	0.1 100			0.2 100	0.2 100	1.7 100		1.6 100		1.6 100		1.6 100		1.2 100		1.2
93	Thallium	ug/dscm	100	1.3 100	1.3 100	1.1 100	1.1 100			1.2 100	1.2 100	18.0 100		16.9 100		17.1 100		17.3 100		13.4 100		12.1
94	SVM	ug/dscm	99	0.74 99	0.66 99	0.64 99	0.64 99			0.7 100	0.7 100	11.8 100		11.1 100		11.2 100		11.4 100		9.0 100		8.2
95	LVM	ug/dscm	0	86.1 0	77.2 0	77.4 0	77.4 0			80.2 9.5	80.2 9.5	117.9 9.5		110.7 11		101.6 9.8		110.1 4.7		183.5 3.7		211.2

	B	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	
61	Viscosity		3.64																			
62	Ash		5.01																			
63	Chlorine		28.05																			
64	Antimony	nd	0.2																			
65	Arsenic	nd	0.21																			
66	Barium	nd	0.67																			
67	Beryllium	nd	0.01																			
68	Cadmium	nd	0.02																			
69	Chromium		4.1																			
70	Lead	nd	0.2																			
71	Mercury	nd	0.03																			
72	Silver	nd	0.03																			
73	Thallium	nd	0.34																			
74																						
75	Stack Gas Flowrate		17116.0		17042.3																	
76	Oxygen		4.9		5.0																	
77																						
78	Thermal Feedrate		28.0		29.6																	
79	Estimated Firing Rate																					
80																						
81	Feedrate MTEC Calculat																					
82	Ash		2070.1		851.3	11	512.6	9	404.4	2	2255.4	4	1057.5	11	483.5	9	386.6	2	2236.4	4	1057.5	
83	Chlorine		1121.9		1505.5		11255.0		9441.8		5852.7		8849.8		11255.0		9441.8		5852.7		8849.8	
84	Antimony	100	8.0	100	7.9	100	19.6	100	18.2	100	18.8	100	18.9	100	9.8	100	9.1	100	9.4	100	18.9	
85	Arsenic	100	8.4	100	8.0	100	19.6	100	18.2	100	19.2	100	19.0	100	9.8	100	9.1	100	9.6	100	19.0	
86	Barium	100	26.8	100	26.1	95	66.6	96	60.1	96	62.8	96	63.2	95	33.3	96	30.0	96	31.4	96	63.2	
87	Beryllium	100	0.4	100	0.4	100	1.0	100	1.0	100	1.0	100	1.0	100	0.5	100	0.5	100	0.5	100	1.0	
88	Cadmium	100	0.8	100	0.8	100	1.9	100	1.8	100	1.9	100	1.9	100	1.0	100	0.9	100	0.9	100	1.9	
89	Chromium		164.0		180.8	0	366.9	0	379.9	0	331.6	0	359.5		366.9		379.9		331.6		359.5	
90	Lead	100	8.0	100	7.9	100	19.5	100	18.1	100	18.8	100	18.8	100	9.8	100	9.0	100	9.4	100	18.8	
91	Mercury	100	1.2	100	1.2	100	2.9	100	2.8	100	2.8	100	2.8	100	1.5	100	1.4	100	1.4	100	2.8	
92	Silver	100	1.2	100	1.2	100	3.0	100	3.0	100	2.9	100	3.0	100	1.5	100	1.5	100	1.5	100	3.0	
93	Thallium	100	13.6	100	13.1	100	32.7	100	30.3	100	31.8	100	31.6	100	16.4	100	15.1	100	15.9	100	31.6	
94	SVM	100	8.8	100	8.7	100	21.5	100	19.9	100	20.7	100	20.7	100	21.5	100	19.9	100	20.7	100	20.7	
95	LVM	5.1	172.8	4.4	189.2	5	387.5	5	399.1	6	351.8	5	379.5	5	387.5	5	399.1	6	351.8	5	379.5	

	B	C	D	E	F	G
1	Process Information					
2						
3	3027C1 Trial burn			R1	R2	R3
4						
5	Firebox Temp A	°F		1638	1633	1629
6	Firebox Temp B	°F		1744	1745	1744
7	Firebox Temp C	°F		1752	1753	1756
8	Blowdown	gpm		66.11	64.51	67.85
9						
10	3027C2 Trial burn			R1	R2	R3
11						
12	Firebox Temp A	°F		1987	1988	2010
13	Firebox Temp B	°F		2100	2101	2125
14	Firebox Temp C	°F		2115	2116	2140
15	Blowdown	gpm		58.66	56.22	55.13