

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	204
4	EPA ID No.	MOD029729688
5	Facility Name	Holcim (US) Inc. (previously Holnam)
6	Facility Location	
7	City	Clarksville
8	State	MO
9	Unit ID Name/No.	Kiln No. 1
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Cement Kiln (CK)
13	Combustor Type	Wet, long
14	Combustor Characteristics	
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	ESP
18	APCS General Class	ESP
19	APCS Characteristics	4 ESPs in parallel, 20 fields, SCA = 675
20	Hazardous Wastes	Liquid
21	Haz Waste Description	
22	Supplemental Fuel	Coal, coke
23		
24	Stack Characteristics	
25	Diameter (ft)	21.0
26	Height (ft)	250.0
27	Gas Velocity (ft/sec)	38.2
28	Gas Temperature (°F)	506.3
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	204C1	
4		
5	Report Name/Date	Trial Burn and Certification of Compliance Test Report, Holnam, Safety Kleen, Clarksville, Missouri, Prepared by Gossman Consulting, July 1992
6	Report Prepare	Gossman Consulting
7	Testing Firm	Team Environmental, Air Compliance Technologies
8	Cond Descr	CoC, MAX COMB TEMP
9	Testing Dates	April 22, 1992
10	Cond Dates	Apr-92
11		
12	204C2	
13		
14	Report Name/Date	Trial Burn and Certification of Compliance Test Report, Holnam, Safety Kleen, Clarksville, Missouri, Prepared by Gossman Consulting, July 1992
15	Report Prepare	Gossman Consulting
16	Testing Firm	Team Environmental, Air Compliance Technologies
17	Cond Descr	CoC, MAX COMB TEMP
18	Testing Dates	April 21, 1992
19	Cond Dates	Apr-92
20		
21	204C3	
22		
23	Report Name/Date	Trial Burn and Certification of Compliance Test Report, Holnam, Safety Kleen, Clarksville, Missouri, Prepared by Gossman Consulting, July 1992
24	Report Prepare	Gossman Consulting
25	Testing Firm	Team Environmental, Air Compliance Technologies
26	Cond Descr	BASELINE, no hazardous waste firing, MAX COMB TEMP
27	Testing Dates	April 24, 1992
28	Cond Dates	Apr-92
29		
30	204C4	
31		
32	Report Name/Date	Trial Burn and Certification of Compliance Test Report, Holnam, Safety Kleen, Clarksville, Missouri, Prepared by Gossman Consulting, July 1992
33	Report Prepare	Gossman Consulting
34	Testing Firm	Team Environmental, Air Compliance Technologies
35	Cond Descr	CoC, LOW COMB TEMP
36	Testing Dates	April 23, 1992
37	Cond Dates	Apr-92
38		
39	204C5	
40		
41	Report Name/Date	Engineering Evaluation Test Report, Testing During Four Test Conditions for Dioxin/Furan Emissions, HCl, SO ₂ , and Kiln Dust from Kiln Discharge Stack and Dust Collector, DEECO Report No. 94-1124A and B, July 18, 1994
42	Report Prepare	DEECO
43	Testing Firm	DEECO
44	Cond Descr	NORMAL operating conditions
45	Testing Dates	May 17, 1994
46	Cond Dates	May-94
47		
48	204C6	
49		
50	Report Name/Date	Engineering Evaluation Test Report, Testing During Four Test Conditions for Dioxin/Furan Emissions, HCl, SO ₂ , and Kiln Dust from Kiln Discharge Stack and Dust Collector, DEECO Report No. 94-1124B, July 18, 1994
51	Report Prepare	DEECO
52	Testing Firm	DEECO
53	Cond Descr	LOW SULFUR FUEL research testing
54	Testing Dates	May 18, 1994
55	Cond Dates	May-94
56		
57	204C7	
58		
59	Report Name/Date	Engineering Evaluation Test Report, Testing During Four Test Conditions for Dioxin/Furan Emissions, HCl, SO ₂ , and Kiln Dust from Kiln Discharge Stack and Dust Collector, DEECO Report No. 94-1124B, July 18, 1994
60	Report Prepare	DEECO
61	Testing Firm	DEECO

	B	C
62	Cond Descr	LOW CL research testing
63	Testing Dates	May 19, 1994
64	Cond Dates	May-94
65		
66	204C8	
67		
68	Report Name/Date	Engineering Evaluation Test Report, Testing During Four Test Conditions for Dioxin/Furan Emissions, HCl, SO2, and Kiln Dust from Kiln Discharge Stack and Dust Collector, DEECO Report No. 94-1124B, July 18, 1994
69	Report Prepare	DEECO
70	Testing Firm	DEECO
71	Cond Descr	WATER INJECTION research testing
72	Testing Dates	May 20, 1994
73	Cond Dates	May-94
74		
75	204C9	
76		
77	Report Name/Date	Trial Burn and Recertification of Compliance Report, prepared for Holnam Clarksville Missouri, prepared by Schreiber, Grana, and Yonley, September 10, 1996
78	Report Prepare	Schrieber, Grana, and Yonley
79	Testing Firm	DEECO
80	Cond Descr	CoC, MAX GAS FLOW RATE, MAX CHLORINE FEED, MAX APCD TEMP
81	Testing Dates	Feb 6-7, 1996
82	Cond Dates	Feb-96
83		
84	204B1	
85		
86	Report Name/Date	Trial Burn and Recertification of Compliance Report, prepared for Holnam Clarksville Missouri, prepared by Schreiber, Grana, and Yonley, September 10, 1996
87	Report Prepare	Schrieber, Grana, and Yonley
88	Testing Firm	DEECO
89	Cond Descr	CoC, DRE, MIN COMB ZONE TEMP, MAX HWDF FEED RATE
90	Testing Dates	February 7, 1996
91	Cond Dates	Feb-96
92		
93	204B2	
94		
95	Report Name/Date	Trial Burn and Recertification of Compliance Report, prepared for Holnam Clarksville Missouri, prepared by Schreiber, Grana, and Yonley, September 10, 1996
96	Report Prepare	Schrieber, Grana, and Yonley
97	Testing Firm	DEECO
98	Cond Descr	NORMAL KILN OPERATING CONDITIONS
99	Testing Dates	May 21, 1996
100	Cond Dates	May-96
101		
102	204B3	
103		
104	Report Name/Date	Trial Burn and Recertification of Compliance Report, prepared for Holnam Clarksville Missouri, prepared by Schreiber, Grana, and Yonley, September 10, 1996
105	Report Prepare	Schrieber, Grana, and Yonley
106	Testing Firm	DEECO
107	Cond Descr	CoC, MAX COMB ZONE TEMP, MAX SLURRY/METALS FEED, MIN ESP POWER
108	Testing Dates	May - June 1996
109	Cond Dates	May-96
110		
111	204B4	
112		
113	Report Name/Date	Particulate Matter Emissions Testing and Continuous Emission Rate Monitoring System Certification, Holnam, Clarksville, Missouri, Fugro Midwest Report 0895-2230, November 6, 1995
114	Report Prepare	Fugro
115	Testing Firm	Fugro
116	Cond Descr	PM EMISSIONS TESTING AND CEM CERTIFICATION
117	Testing Dates	November 2, 1995
118	Cond Dates	Nov-95

	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Stack Gas Emissions 2												
2													
3													
4													
5			Units	7%O2									
6	204C1					R1		R2		R3		Cond Avg	
7													
8	PM	E1	gr/dscf	y		0.03354		0.03253		0.03527		0.03378	
9	Antimony	E2	ug/dscm	y	nd	1.38	nd	1.40	nd	1.63	100	1.47	
10	Arsenic	E2	ug/dscm	y		2.30	nd	0.82	nd	0.96	43.7	1.36	
11	Barium	E2	ug/dscm	y		58.70		64.74		37.99		53.81	
12	Beryllium	E2	ug/dscm	y		0.76		0.71		0.52		0.66	
13	Cadmium	E2	ug/dscm	y		51.82		44.55		30.07		42.15	
14	Chromium	E2	ug/dscm	y		2.57	nd	2.47	nd	1.44	60.4	2.16	
15	Chromium (Hex)	E3	ug/dscm	y		0.08		0.09		0.35		0.17	
16	Lead	E2	ug/dscm	y		696.81		359.23		208.42		421.49	
17	Mercury	E2	ug/dscm	y		16.75		20.28		14.00		17.01	
18	Silver	E2	ug/dscm	y	nd	0.24	nd	2.47		2.70	50.1	1.81	
19	Thallium	E2	ug/dscm	y		6.44		5.11		3.06		4.87	
20	SVM	E2	ug/dscm	y		748.62		403.78		238.49		463.63	
21	LVM	E2	ug/dscm	y		5.62	82	4.01	82	2.92	45.4	4.19	
22													
23	Sampling Train	Particulate	E1										
24	Stack Gas Flowrate		dscfm			243064		244570		243850			
25	O2		%			7.1		11.1		10.8			
26	Moisture		%			30.4		30		30.6			
27	Temperature		°F			508.6		509.9		510			
28													
29	Sampling Train	Metals	E2										
30	Stack Gas Flowrate		dscfm			244972		243410		232638			
31	O2		%			4.6		4.8		6.2			
32	Moisture		%			34.5		35.1		34.8			
33	Temperature		°F			505.3		509.5		509.5			
34													
35	Sampling Train	Cr Hex	E3										
36	Stack Gas Flowrate		dscfm			257554		258786		260000			
37	O2		%			4.9		6.5		11.7			
38	Moisture		%			31.15		29.55		28.91			
39	Temperature		°F			506.2		508.8		509.4			
40													
41	204C2					R1		R2		R3		Cond Avg	
42													
43	HCl	E1	ppmv	y	nd	0.06	nd	0.06	nd	0.08	100	0.06	
44	Cl2	E1	ppmv	y	nd	0.01	nd	0.01	nd	0.01	100	0.01	
45	Total Chlorine	E1	ppmv	y	100	0.08	100	0.08	100	0.10	100	0.09	
46													
47	Sampling Train	Dioxin & Furan	E1										
48	Stack Gas Flowrate		dscfm			251746		255408		258855			
49	O2		%			4.4		4.4		4.4			
50	Moisture		%			34.97		33.05		33.5			
51	Temperature		°F			493.82		501.3		508.6			
52													
53	204C3					R1		R2		R3		Cond Avg	
54													
55	Sampling Train	Dioxin & Furan	E1										
56	Stack Gas Flowrate		dscfm			272032		272563		268058			
57	O2		%			4.9		4.3		5.6			
58	Moisture		%			31.6		31.3		31.2			
59	Temperature		°F			509.3		523.6		521.9			
60													
61	204C4					R1		R2		R3		Cond Avg	
62													
63	Sampling Train	SVOC	E1										
64	Stack Gas Flowrate		dscfm			243596		240474		220730			
65	O2		%			4.1		4.2		4.8			
66	Moisture		%			34.13		34.4		34.6			
67	Temperature		°F			498.65		496.4		491.8			
68													
69	1,2,4-Trichlorobenzene	E1	%			99.996		99.996		99.996			
70													
71	204C5					R1		R2		R3		Cond Avg	

	B	C	D	E	F	G	H	I	J	K	L	M	N
72													
73	CO (RA)	E1	ppmv	y		254.71		260.13		261.03		258.62	
74	HC (RA)	E1	ppmv	y		154.45		158.97		162.58		158.67	
75	HCl	E1	ppmv	y		17.09		22.00		18.22		19.10	
76	Cl2	E1	ppmv	y		0.27		0.05		0.04		0.12	
77	Total Chlorine	E1	ppmv	y		17.63		22.09		18.31		19.34	
78													
79	Sampling Train	Dioxin & Furan	E1										
80	Stack Gas Flowrate		dscfm			288250		269580		273140			
81	O2		%			5.5		5.5		5.5			
82	Moisture		%			29.2		31		30.6			
83	Temperature		°F			439.4		434.6		432			
84													
85	204C6					R1		R2		R3		Cond Avg	
86													
87	CO (RA)	E1	ppmv	y		258.46		273.32		255.53		262.44	
88	HC (RA)	E1	ppmv	y		161.54		165.08		166.45		164.36	
89	HCl	E1	ppmv	y		8.50		9.94		14.39		10.95	
90	Cl2	E1	ppmv	y		0.03		0.04		0.05		0.04	
91	Total Chlorine	E1	ppmv	y		8.55		10.03		14.50		11.03	
92													
93	Sampling Train	Dioxin & Furan	E1										
94	Stack Gas Flowrate		dscfm			269440		276100		278770		274770.0	
95	O2		%			5.4		5.48		5.44		5.4	
96	Moisture		%			32.4		31.6		31.7		31.9	
97	Temperature		°F			432.7		437.2		439.4		436.4	
98													
99	204C7					R1		R2		R3		Cond Avg	
100													
101	CO (RA)	E1	ppmv	y		252.37		269.06		248.49		256.64	
102	HC (RA)	E1	ppmv	y		148.77		162.35		169.26		160.12	
103	HCl	E1	ppmv	y		11.66		5.79		8.40		8.62	
104	Cl2	E1	ppmv	y		0.24		0.32		0.04		0.20	
105	Total Chlorine	E1	ppmv	y		12.13		6.42		8.49		9.01	
106													
107	Sampling Train	Dioxin & Furan	E1										
108	Stack Gas Flowrate		dscfm			275310		270310		266790			
109	O2		%			5.19		5.65		5.45			
110	Moisture		%			31.3		31.2		31.3			
111	Temperature		°F			446.8		446.7		442.5			
112													
113	204C8					R1		R2		R3		Cond Avg	
114													
115	CO (RA)	E1	ppmv	y		270.73						270.73	
116	HC (RA)	E1	ppmv	y		168.74						168.74	
117	HCl	E1	ppmv	y		10.14						10.14	
118	Cl2	E1	ppmv	y		0.06						0.06	
119	Total Chlorine	E1	ppmv	y		10.25						10.25	
120													
121	Sampling Train	Dioxin & Furan	E1										
122	Stack Gas Flowrate		dscfm			275360							
123	O2		%			5.9							
124	Moisture		%			32							
125	Temperature		°F			398							
126													
127	204C9					R1		R2		R3		Cond Avg	
128													
129	PM	E1	gr/dscf	y		0.02040		0.02360		0.02860		0.02420	
130	CO (MHRA)	E1	ppmv	y		74.80		84.70		66.00		75.17	
131	CO (RA)	E1	ppmv	y		55.40		49.00		37.00		47.13	
132	HCl	E1	ppmv	y		22.22		32.93		32.87		29.34	
133	Cl2	E1	ppmv	y		0.45		1.47		0.14		0.68	
134	Total Chlorine	E1	ppmv	y		23.11		35.87		33.15		30.71	
135													
136	Sampling Train	Particulate	E1										
137	Stack Gas Flowrate		dscfm			339100		327190		322160			
138	O2		%			6.6		8.3		9			
139	Moisture		%			27.9		30.6		30.4			
140	Temperature		°F			504.7		503.6		504			
141													
142	Sampling Train	Dioxin & Furan	E2										

	B	C	D	E	F	G	H	I	J	K	L	M	N
143	Stack Gas Flowrate		dscfm			312010		315240		307120			
144	O2		%			6.6		8.3		9			
145	Moisture		%			30.2		30.2		30.2			
146	Temperature		°F			509.9		506.8		508.8			
147													
148	204B1					R1		R2		R3		Cond Avg	
149													
150	CO (MHRA)	E1	ppmv	y		72.20		75.50		69.00		72.23	
151	CO (RA)	E1	ppmv	y		58.30		61.40		55.80		58.50	
152													
153	1,2,4-Trichlorobenzene	E1	%			99.99985		99.99983		99.99985			
154	Tetrachloroethene	E1	%			99.99999		99.99997		99.99999			
155													
156	Sampling Train	Dioxin & Furan	E1										
157	Stack Gas Flowrate		dscfm			282140		305570		289950			
158	O2		%			6.3		6.2		5.9			
159	Moisture		%			31.2		31.2		31.4			
160	Temperature		°F			485.8		484.2		489.5			
161													
162	204B2					R1		R2		R3		Cond Avg	
163													
164	PM	E1	gr/dscf	y		0.00800		0.00780		0.00760		0.00780	
165	CO (MHRA)	E1	ppmv	y		56.50		57.30		59.50		57.8	
166	CO (RA)	E1	ppmv	y		51.90		52.80		53.00		52.6	
167	HCl	E1	ppmv	y		15.74		20.76		25.13		20.5	
168	Cl2	E1	ppmv	y		4.49		4.18		4.64		4.4	
169	Total Chlorine	E1	ppmv	y		24.72		29.12		34.42		29.4	
170	Antimony	E2	ug/dscm	y		1.95		1.83		1.72		1.8	
171	Arsenic	E2	ug/dscm	y		0.52		0.51		0.49		0.5	
172	Barium	E2	ug/dscm	y		7.29		8.32		8.45		8.0	
173	Beryllium	E2	ug/dscm	y	nd	0.04	nd	0.04	nd	0.04	100	0.0	
174	Cadmium	E2	ug/dscm	y		0.48		1.36		0.56		0.8	
175	Chromium	E2	ug/dscm	y		4.89		4.64		4.38		4.6	
176	Chromium (Hex)	E3	ug/dscm	y		0.29	nd	0.25	nd	0.26		0.3	
177	Lead	E2	ug/dscm	y		35.78		35.43		28.85		33.4	
178	Mercury	E2	ug/dscm	y		6.29		6.00		8.12		6.8	
179	Nickel	E2	ug/dscm	y		3.52		3.55		3.06		3.4	
180	Selenium	E2	ug/dscm	y		36.19		25.30		14.32		25.3	
181	Silver	E2	ug/dscm	y		0.25		0.26		0.26		0.3	
182	Thallium	E2	ug/dscm	y		1.14		0.94		0.50		0.9	
183	SVM	E2	ug/dscm	y		36.26		36.79		29.41		34.2	
184	LVM	E2	ug/dscm	y	0.8	5.46	0.8	5.19	0.9	4.91	0.8	5.2	
185													
186	Sampling Train	Particulate	E1										
187	Stack Gas Flowrate		dscfm			252910		275730		272890			
188	O2		%			7.5		6.5		7.9			
189	Moisture		%			35.3		34.3		35.7			
190	Temperature		°F			412.2		412.9		410.9			
191													
192	Sampling Train	Metals	E2										
193	Stack Gas Flowrate		dscfm			262000		259500		267100			
194	O2		%			7.5		6.5		7.9			
195	Moisture		%			35.3		35.3		34.7			
196	Temperature		°F			417.7		484.2		416.9			
197													
198	Sampling Train	Cr Hex	E3										
199	Stack Gas Flowrate		dscfm			275100		270900		286700			
200	O2		%			7.5		6.5		7.9			
201	Moisture		%			32.5		32.8		30.4			
202	Temperature		°F			412.6		413.1		411.4			
203													
204	Sampling Train	Dioxin & Furan	E4										
205	Stack Gas Flowrate		dscfm			268370		268100		279280			
206	O2		%			7.5		6.5		7.9			
207	Moisture		%			34.3		34.6		34.2			
208	Temperature		°F			414		413.8		413.8			
209													
210	204B3					R1		R2		R3		Cond Avg	
211													
212	PM	E1	gr/dscf	y		0.01740		0.00920		0.00930		0.01197	
213	CO (MHRA)	E1	ppmv	y		43.00		163.10		88.50		98.20	

	B	C	D	E	F	G	H	I	J	K	L	M	N
214	CO (RA)	E1	ppmv	y		24.70		91.60		31.80		49.37	
215	HCl	E1	ppmv	y		35.71		18.12		28.30		27.38	
216	Cl2	E1	ppmv	y		10.34		10.80		9.76		10.30	
217	Total Chlorine	E1	ppmv	y		56.39		39.73		47.82		47.98	
218	Antimony	E2	ug/dscm	y		1.19		1.93		1.32		1.48	
219	Arsenic	E2	ug/dscm	y		0.35		0.48		0.38		0.40	
220	Barium	E2	ug/dscm	y		12.27		16.61		12.86		13.91	
221	Beryllium	E2	ug/dscm	y		0.34		0.37		0.45		0.39	
222	Cadmium	E2	ug/dscm	y		20.15		14.77		23.36		19.42	
223	Chromium	E2	ug/dscm	y		6.29		7.46		8.98		7.57	
224	Chromium (Hex)	E3	ug/dscm	y	nd	0.25	nd	0.22	nd	0.20	100	0.22	
225	Lead	E2	ug/dscm	y		404.18		344.88		282.95		344.00	
226	Mercury	E2	ug/dscm	y		11.84		9.03		14.74		11.87	
227	Nickel	E2	ug/dscm	y		2.63		4.43		3.78		3.61	
228	Selenium	E2	ug/dscm	y		53.37		49.11		31.91		44.80	
229	Silver	E2	ug/dscm	y		0.51		0.32		0.26		0.36	
230	Thallium	E2	ug/dscm	y		2.46		1.70		1.82		1.99	
231	SVM	E2	ug/dscm	y		424.33		359.65		306.31		363.43	
232	LVM	E2	ug/dscm	y		6.98		8.30		9.81		8.37	
233													
234	Sampling Train	Particulate	E1										
235	Stack Gas Flowrate		dscfm			310290		295030		301660			
236	O2		%			3.3		4.6		2			
237	Moisture		%			34.4		35		35.2			
238	Temperature		°F			451.6		431.6		446.8			
239													
240	Sampling Train	Metals	E2										
241	Stack Gas Flowrate		dscfm			302700		284400		297100			
242	O2		%			3.3		4.6		2			
243	Moisture		%			32.8		34.7		34.8			
244	Temperature		°F			456.7		422.3		438			
245													
246	Sampling Train	Cr Hex	E3										
247	Stack Gas Flowrate		dscfm			298900		253900		281700			
248	O2		%			3.3		4.6		2			
249	Moisture		%			33.3		35.4		33.6			
250	Temperature		°F			452.6		434.6		451.1			
251													
252	204B4					R1		R2		R3		Cond Avg	
253													
254	PM	E1	gr/dscf	y		0.02552		0.02800		0.02144		0.02499	
255													
256	Sampling Train	Particulate											
257	Stack Gas Flowrate		dscfm			304168		301374		299055			
258	O2		%			6.3		6.1		6.7			
259	Moisture		%			30.72		31.76		32.47			
260	Temperature		°F			482		483		482			

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	Feedstreams 2																				
2																					
3																					
4	204C1				R1		R2		R3		R1		R2		R3		R1		R2		R3
5																					
6	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3
7	Feed Class				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW
8	Feed Class 2				Coal		Coal		Coal		RM		RM		RM		HW		HW		HW
9	Feedstream Description				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liquid waste		Liquid waste		Liquid waste
10	Feed Rate	lb/hr			40,000		40,000		40,000		880,000		880,000		880,000		42,800		42,800		42,800
11	Heating Value	Btu/lb			12,600		11,900		12,500								15,800		16,300		14,600
12	Thermal Feedrate	MMBtu/hr			504		476		500								676		698		625
13	Chlorine	lb/hr			32		24.24		32.88		114.4		95.92		113.52		2097.2		2268.4		2182.8
14	Antimony	lb/hr	nd		0.03	nd	0.03	nd	0.03	nd	0.62	nd	0.72	nd	0.61		0.48		0.68		0.59
15	Arsenic	lb/hr	nd		0.03	nd	0.03	nd	0.03	nd	0.63	nd	0.73	nd	0.62	nd	0.03	nd	0.03	nd	0.03
16	Barium	lb/hr			0.48		0.78		0.55		42.24		39.34		43.21		32.40		44.51		32.70
17	Beryllium	lb/hr			0.22		0.19		0.19		0.44		0.41		0.46		0.03		0.04		0.03
18	Cadmium	lb/hr	nd		0.01	nd	0.01	nd	0.01	nd	0.96	nd	0.97	nd	1.09		0.19		0.27		0.20
19	Chromium	lb/hr			0.37		0.37		0.32		8.67		9.24		11.35		5.74		9.63		6.85
20	Chromium (Hex)	lb/hr																			
21	Lead	lb/hr			0.11		0.08		0.11		2.96		3.01		2.91		15.45		21.40		15.79
22	Mercury	lb/hr	nd		0.00	nd	0.00	nd	0.00	nd	0.09	nd	0.09	nd	0.09	nd	0.00	nd	0.00	nd	0.00
23	Silver	lb/hr	nd		0.01	nd	0.01	nd	0.01	nd	0.96	nd	0.97	nd	1.09		0.03		0.08		0.01
24	Thallium	lb/hr	nd		0.03	nd	0.03	nd	0.03	nd	3.15	nd	3.65	nd	3.08	nd	0.03	nd	0.03	nd	0.03
25																					
26	Stack Gas Flowrate	dscfm			244972		243410		232638		244972		243410		232638		244972		243410		232638
27	Oxygen	%			4.6		4.8		6.2		4.6		4.8		6.2		4.6		4.8		6.2
28																					
29	<i>Feedrate MTEC Calculations</i>																				
30	Chlorine	ug/dscm			29,815		23,010		35,747		106,589		91,055		123,417		1,954,005		2,153,339		2,373,109
31	Antimony	ug/dscm	100		29	100	30	100	33	100	580	100	686	100	662		451		650		647
32	Arsenic	ug/dscm	100		30	100	31	100	33	100	586	100	694	100	670	100	26	100	31	100	35
33	Barium	ug/dscm			443		744		596		39,356		37,341		46,975		30,187		42,254		35,550
34	Beryllium	ug/dscm			207		183		210		411		391		497		28		35		29
35	Cadmium	ug/dscm	100		9	100	9	100	11	100	894	100	919	100	1,186		177		255		214
36	Chromium	ug/dscm			344		348		349		8,076		8,771		12,342		5,344		9,142		7,445
37	Chromium (Hex)	ug/dscm			0		0		0		0		0		0		0		0		0
38	Lead	ug/dscm	100		104	100	73	100	120		2,755		2,857		3,167		14,396		20,315		17,170
39	Mercury	ug/dscm	100		4	100	4	100	4	100	82	100	84	100	96	100	4	100	4	100	5
40	Silver	ug/dscm	100		9	100	12	100	11	100	894	100	919	100	1,186		31		74		12
41	Thallium	ug/dscm	100		30	100	31	100	33	100	2,935	100	3,467	100	3,349	100	26	100	31	100	35
42	SVM	ug/dscm	100		114	100	82	100	130	100	3,649	100	3,776	100	4,353		14,573		20,570		17,384
43	LVM	ug/dscm	5.1		581	5	562	6	593	6	9,073	7	9,856	5	13,509	0	5,398	0	9,208	0	7,508
44																					
45	204C2				R1		R2		R3		R1		R2		R3		R1		R2		R3
46																					
47	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3
48	Feed Class				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW
49	Feed Class 2				Coal		Coal		Coal		RM		RM		RM		HW		HW		HW
50	Feedstream Description				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liquid waste		Liquid waste		Liquid waste
51	Feed Rate	lb/hr			40,000		40,000		40,000		882,000		882,000		882,000		42,000		42,000		42,000
52	Heating Value	Btu/lb			14,100		13,100		12,000								16,200		16,200		15,600
53	Thermal Feedrate	MMBtu/hr			564		524		480								680		680		655
54	Chlorine	lb/hr			5		30		31		119		112		108		1,798		1,823		1,890
55																					
56	Stack Gas Flowrate	dscfm			251,746		255,408		258,855		251,746		255,408		258,855		251,746		255,408		258,855
57	Oxygen	%			4.4		4.4		4.4		4.4		4.4		4.4		4.4		4.4		4.4
58																					
59	<i>Feedrate MTEC Calculations</i>																				
60	Chlorine	ug/dscm			4,622		26,416		27,249		106,654		98,895		93,737		1,610,158		1,609,321		1,646,430

	B	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP
1	Feedstreams 2																				
2																					
3																					
4	204C1		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
5																					
6	Feedstream Number		F4		F4		F4		F5		F5		F5		F6		F6		F6		F6
7	Feed Class		Spike		Spike		Spike		Solid non-HW		Solid non-HW		Solid non-HW		Total		Total		Total		Total
8	Feed Class 2		Spike		Spike		Spike		Non-HW		Non-HW		Non-HW		Total		Total		Total		Total
9	Feedstream Description		Spiked metals		Spiked metals		Spiked metals		Tires		Tires		Tires		Total		Total		Total		Total
10	Feed Rate		1,002		708		750														
11	Heating Value																				
12	Thermal Feedrate														1,180		1,174		1,125		1,160
13	Chlorine																				
14	Antimony																				
15	Arsenic		8.6		8.5		8.4														
16	Barium																				
17	Beryllium		5.8		5.7		5.6														
18	Cadmium		14.4		14.2		14.1														
19	Chromium		140		93.1		99.8														
20	Chromium (Hex)		81.6		84.8		38.3														
21	Lead		207		138		148														
22	Mercury																				
23	Silver																				
24	Thallium																				
25																					
26	Stack Gas Flowrate		244972		243410		232638														
27	Oxygen		4.6		4.8		6.2														
28																					
29	<i>Feedrate MTEC Calculations</i>																				
30	Chlorine		0		0		0								2,090,409		2,267,404		2,532,274		2,296,696
31	Antimony		0		0		0							57	1,060	52	1,366	52	1,342	54	1,256
32	Arsenic		8,013		8,069		9,132							7	8,655	9	8,825	7	9,870	8	9,117
33	Barium		0		0		0								69,987		80,339		83,121		77,816
34	Beryllium		5,404		5,411		6,088								6,050		6,020		6,825		6,298
35	Cadmium		13,417		13,480		15,329							6	14,497	6	14,663	7	16,740	7	15,300
36	Chromium		130,441		88,378		108,501								144,205		106,639		128,637		126,494
37	Chromium (Hex)		76,028		80,499		41,639								76,028		80,499		41,639		66,055
38	Lead		192,866		131,000		160,904								210,121		154,244		181,360		181,909
39	Mercury		0		0		0							100	90	100	91	100	105	100	95
40	Silver		0		0		0								934	93	1,004	99	1,209	68	1,049
41	Thallium		0		0		0							100	2,991	100	3,528	100	3,416	100	3,312
42	SVM		206,283		144,480		176,233							2	224,618	2	168,907	2	198,100	2	197,209
43	LVM		143,858		101,857		123,722							0	158,909	1	121,484	1	145,332	1	141,908
44																					
45	204C2		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
46																					
47	Feedstream Number		F4		F4		F4		F5		F5		F5		F7		F7		F7		F7
48	Feed Class		Spike		Spike		Spike		Solid non-HW		Solid non-HW		Solid non-HW		Total		Total		Total		Total
49	Feed Class 2		Spike		Spike		Spike		Non-HW		Non-HW		Non-HW		Total		Total		Total		Total
50	Feedstream Description		Spiked metals		Spiked metals		Spiked metals		Tires		Tires		Tires		Total		Total		Total		Total
51	Feed Rate																				
52	Heating Value																				
53	Thermal Feedrate														1,244		1,204		1,135		1,195
54	Chlorine																				
55																					
56	Stack Gas Flowrate		251,746		255,408		258,855		251,746		255,408		258,855								
57	Oxygen		4.4		4.4		4.4		4.4		4.4		4.4								
58																					
59	<i>Feedrate MTEC Calculations</i>																				
60	Chlorine		0		0		0		0		0		0		1,721,435		1,734,632		1,767,416		1,741,161

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
61																					
62																					
63	204C3				R1		R2		R3		R1		R2		R3		R1		R2		R3
64																					
65	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3
66	Feed Class				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW
67	Feed Class 2				Coal		Coal		Coal		RM		RM		RM		HW		HW		HW
68	Feedstream Description				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liquid waste		Liquid waste		Liquid waste
69	Feed Rate		lb/hr		76,000		76,000		76,000		890,000		890,000		890,000						
70	Heating Value		Btu/lb		12,900		13,200		13,100												
71																					
72	204C4				R1		R2		R3		R1		R2		R3		R1		R2		R3
73																					
74	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3
75	Feed Class				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW
76	Feedstream				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liquid waste		Liquid waste		Liquid waste
77	Feed Rate		lb/hr		34,000		34,000		34,000		864,000		864,000		864,000		42,000		42,000		42,000
78	Heating Value		Btu/lb		13,200		12,500		13,000								9,140		15,700		15,500
79																					
80	204C5				R1		R2		R3		R1		R2		R3		R1		R2		R3
81																					
82	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3
83	Feed Class				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW
84	Feedstream				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liquid waste		Liquid waste		Liquid waste
85	Feed Rate		lb/hr		44000		44200		44200								29600		30200		30200
86	Heating Value		Btu/lb		0		0		0								0		0		0
87																					
88	204C6				R1		R2		R3		R1		R2		R3		R1		R2		R3
89																					
90	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3
91	Feed Class				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW
92	Feedstream				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liquid waste		Liquid waste		Liquid waste
93	Feed Rate		lb/hr		59,200		60,600		61,600								30200		30200		28400
94	Heating Value		Btu/lb		0		0		0								0		0		0
95																					
96	204C7				R1		R2		R3		R1		R2		R3		R1		R2		R3
97																					
98	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3
99	Feed Class				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW
100	Feedstream				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liquid waste		Liquid waste		Liquid waste
101	Feed Rate		lb/hr		42,200		39,400		39,200								30200		30200		30200
102	Heating Value		Btu/lb		0		0		0								0		0		0
103																					
104	204C8				R1		R2		R3		R1		R2		R3		R1		R2		R3
105																					
106	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3
107	Feed Class				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW
108	Feedstream				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liquid waste		Liquid waste		Liquid waste
109	Feed Rate		lb/hr		44,200												30200				
110	Heating Value		Btu/lb		0												0				
111																					
112	204C9				R1		R2		R3		R1		R2		R3		R1		R2		R3
113																					
114	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3
115	Feed Class				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW
116	Feed Class 2				Coal		Coal		Coal		RM		RM		RM		HW		HW		HW
117	Feedstream Description				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liquid waste		Liquid waste		Liquid waste
118	Feed Rate		lb/hr		39,242		38,581		38,360		870,826		842,166		804,687		33,069		33,069		33,069
119	Heating Value		Btu/lb		14,525		14,567		14,807								11,068		11,128		11,491
120	Thermal Feedrate		MMBtu/hr		570		562		568								366		368		380

	B	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP
61																					
62																					
63	204C3		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
64																					
65	Feedstream Number		F4		F4		F4		F5		F5		F5		F7		F7		F7		F7
66	Feed Class		Spike		Spike		Spike		Solid non-HW		Solid non-HW		Solid non-HW		Total		Total		Total		Total
67	Feed Class 2		Spike		Spike		Spike		Non-HW		Non-HW		Non-HW		Total		Total		Total		Total
68	Feedstream Description		Spiked metals		Spiked metals		Spiked metals		Tires		Tires		Tires		Total		Total		Total		Total
69	Feed Rate																				
70	Heating Value																				
71																					
72	204C4		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
73																					
74	Feedstream Number		F4		F4		F4		F5		F5		F5		F7		F7		F7		F7
75	Feed Class		Spike		Spike		Spike		Solid non-HW		Solid non-HW		Solid non-HW		Total		Total		Total		Total
76	Feedstream		Spiked metals		Spiked metals		Spiked metals		Tires		Tires		Tires		Total		Total		Total		Total
77	Feed Rate																				
78	Heating Value																				
79																					
80	204C5		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
81																					
82	Feedstream Number		F4		F4		F4		F5		F5		F5		F7		F7		F7		F7
83	Feed Class		Spike		Spike		Spike		Solid non-HW		Solid non-HW		Solid non-HW		Total		Total		Total		Total
84	Feedstream		Spiked metals		Spiked metals		Spiked metals		Tires		Tires		Tires		Total		Total		Total		Total
85	Feed Rate																				
86	Heating Value																				
87																					
88	204C6		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
89																					
90	Feedstream Number		F4		F4		F4		F5		F5		F5		F7		F7		F7		F7
91	Feed Class		Spike		Spike		Spike		Solid non-HW		Solid non-HW		Solid non-HW		Total		Total		Total		Total
92	Feedstream		Spiked metals		Spiked metals		Spiked metals		Tires		Tires		Tires		Total		Total		Total		Total
93	Feed Rate																				
94	Heating Value																				
95																					
96	204C7		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
97																					
98	Feedstream Number		F4		F4		F4		F5		F5		F5		F7		F7		F7		F7
99	Feed Class		Spike		Spike		Spike		Solid non-HW		Solid non-HW		Solid non-HW		Total		Total		Total		Total
100	Feedstream		Spiked metals		Spiked metals		Spiked metals		Tires		Tires		Tires		Total		Total		Total		Total
101	Feed Rate																				
102	Heating Value																				
103																					
104	204C8		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
105																					
106	Feedstream Number		F4		F4		F4		F5		F5		F5		F7		F7		F7		F7
107	Feed Class		Spike		Spike		Spike		Solid non-HW		Solid non-HW		Solid non-HW		Total		Total		Total		Total
108	Feedstream		Spiked metals		Spiked metals		Spiked metals		Tires		Tires		Tires		Total		Total		Total		Total
109	Feed Rate																				
110	Heating Value																				
111																					
112	204C9		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
113																					
114	Feedstream Number		F4		F4		F4		F5		F5		F5		F6		F6		F6		F6
115	Feed Class		Spike		Spike		Spike		Solid non-HW		Solid non-HW		Solid non-HW		Total		Total		Total		Total
116	Feed Class 2		Spike		Spike		Spike		Non-HW		Non-HW		Non-HW		Total		Total		Total		Total
117	Feedstream Description		Organic Liq Spike		Organic Liq Spike		Organic Liq Spike		Tires		Tires		Tires		Total		Total		Total		Total
118	Feed Rate		668		668		668		4,564		5,534		5,247								
119	Heating Value								13,454		14,403		15,323								
120	Thermal Feedrate								61		80		80		997		1,010		988		998

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
121	Chlorine		lb/hr		20		19		19		174		168		161		864		924		1,025
122																					
123	Stack Gas Flowrate		dscfm		339,100		327,190		322,160		339,100		327,190		322,160		339,100		327,190		322,160
124	Oxygen		%		7		8		9		7		8		9		7		8		9
125																					
126	<i>Feedrate MTEC Calculations</i>																				
127	Chlorine		ug/dscm		15,040		17,377		18,571		133,515		151,727		155,832		662,484		832,121		992,615
128																					
129	204B1				R1		R2		R3		R1		R2		R3		R1		R2		R3
130																					
131	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3
132	Feed Class				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW
133	Feedstream				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liquid waste		Liquid waste		Liquid waste
134	Feed Rate		lb/hr		30,865		32,187		31,306		817,915		813,506		780,436		36,376		36,156		36,376
135	Heating Value		Btu/lb		14,645		14,353		14,790								11,518		11,561		11,766
136																					
137	204B2				R1		R2		R3		R1		R2		R3		R1		R2		R3
138																					
139	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3
140	Feed Class				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW
141	Feedstream				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liquid waste		Liquid waste		Liquid waste
142	Feed Rate		lb/hr		36,156		35,935		35,494		703,275		703,275		639,341		27,999		27,999		27,999
143	Heating Value		Btu/lb		14,244		14,276		14,284								11,572		11,572		11,465
144																					
145	204B3				R1		R2		R3		R1		R2		R3		R1		R2		R3
146																					
147	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3
148	Feed Class				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW
149	Feed Class 2				Coal		Coal		Coal		RM		RM		RM		HW		HW		HW
150	Feedstream Description				Coal		Coal		Coal		Raw Material		Raw Material		Raw Material		Liquid waste		Liquid waste		Liquid waste
151	Feed Rate		lb/hr		39,463		41,447		52,029		674,614		683,433		798,073		33,069		33,069		33,069
152	Heating Value		Btu/lb		14,039		14,838		14,972								11,763		11,219		11,279
153	Thermal Feedrate		MMBtu/hr		554		615		779								389		371		373
154	Arsenic		lb/hr	nd	0.04	nd	0.04	nd	0.05	nd	0.67		0.72	nd	0.80		0.04	nd	0.03	nd	0.03
155	Beryllium		lb/hr		0.01	nd	0.00	nd	0.01	nd	0.07	nd	0.07		0.09	nd	0.00	nd	0.00	nd	0.00
156	Cadmium		lb/hr		0.01	nd	0.00	nd	0.01	nd	0.07	nd	0.07	nd	0.08		0.17		0.19		0.19
157	Chromium		lb/hr		0.16		0.14		0.23		1.23		2.36		4.14		3.26		3.86		3.40
158	Lead		lb/hr	nd	0.04	nd	0.04	nd	0.05		1.01		1.60		1.43		11.64		12.35		11.93
159																					
160	Stack Gas Flowrate		dscfm		302,700		284,400		297,100		302,700		284,400		297,100		302,700		284,400		297,100
161	Oxygen		%		3.3		4.6		2		3.3		4.6		2		3.3		4.6		2
162																					
163	<i>Feedrate MTEC Calculations</i>																				
164	Arsenic		ug/dscm	100	28	100	33	100	35	100	471		575	100	529		25	100	27	100	22
165	Beryllium		ug/dscm		4	100	3	100	3	100	47	100	55		62	100	2	100	3	100	2
166	Cadmium		ug/dscm		10	100	3	100	3	100	47	100	55	100	53		117		151		128
167	Chromium		ug/dscm		111		115		154		856		1,893		2,748		2,280		3,096		2,251
168	Lead		ug/dscm	100	28	100	33	100	35		707		1,286		947		8,133		9,908		7,909
169	SVM		ug/dscm	73	38	100	37	100	19	6	731	4	1,314	5	974		8,250		10,059		8,037
170	LVM		ug/dscm	19	142	24	152	22	172	46	1,116	2	2,496	17	3,075	0	2,306	1	3,111	1	2,263

	B	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP
121	Chlorine		569		569		569		6		6	1		3							
122																					
123	Stack Gas Flowrate		339,100		327,190		322,160		339,100		327,190		322,160								
124	Oxygen		7		8		9		7		8		9								
125																					
126	<i>Feedrate MTEC Calculations</i>																				
127	Chlorine		436,182		512,572		550,942		4,599		5,765	1	2,517		1,251,821		1,519,561		1,719,219		1,496,867
128																					
129	204B1		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
130																					
131	Feedstream Number		F4		F4		F4		F5		F5		F5		F7		F7		F7		F7
132	Feed Class		Spike		Spike		Spike		Solid non-HW		Solid non-HW		Solid non-HW		Total		Total		Total		Total
133	Feedstream		Spiked metals		Spiked metals		Spiked metals		Tires		Tires		Tires		Total		Total		Total		Total
134	Feed Rate								5,291		6,526		6,724								
135	Heating Value								13,816		12,704		15,467								
136																					
137	204B2		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
138																					
139	Feedstream Number		F4		F4		F4		F5		F5		F5		F7		F7		F7		F7
140	Feed Class		Spike		Spike		Spike		Solid non-HW		Solid non-HW		Solid non-HW		Total		Total		Total		Total
141	Feedstream		Organic Liq Spike		Organic Liq Spike		Organic Liq Spike		Tires		Tires		Tires		Total		Total		Total		Total
142	Feed Rate		605		604		604		2,954		3,020		3,020								
143	Heating Value								14,386		14,535		14,171								
144																					
145	204B3		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
146																					
147	Feedstream Number		F4		F4		F4		F5		F5		F5		F6		F6		F6		F6
148	Feed Class		Spike		Spike		Spike		Solid non-HW		Solid non-HW		Solid non-HW		Total		Total		Total		Total
149	Feed Class 2		Spike		Spike		Spike		Non-HW		Non-HW		Non-HW		Total		Total		Total		Total
150	Feedstream Description		Spiked metals		Spiked metals		Spiked metals		Tires		Tires		Tires		Total		Total		Total		Total
151	Feed Rate		2,031		1,972		1,977		3,505		1,841		2,579								
152	Heating Value		0		0		0		14,920		13,037		12,445								
153	Thermal Feedrate								52.3		24		32.1		995		1010		1184		1063
154	Arsenic		7.80		7.50		7.69 nd		0.00		0.00		0.00								
155	Beryllium		5.20		5.34		5.34 nd		0.00 nd		0.00 nd		0.00								
156	Cadmium		12.61		12.39		12.39		0.00		0.00		0.01								
157	Chromium		119.93		115.08		115.08		0.02		0.03		0.05								
158	Lead		139.11		130.29		130.29		0.05		0.06		0.07								
159																					
160	Stack Gas Flowrate		302,700		284,400		297,100		302,700		284,400		297,100								
161	Oxygen		3.3		4.6		2		3.3		4.6		2								
162																					
163	<i>Feedrate MTEC Calculations</i>																				
164	Arsenic		5,452		6,016		5,102	100	2		3		3	8	5,979	1	6,624	11	5,398	6	6,000
165	Beryllium		3,635		4,282		3,538	100	0	100	0	100	0	1	3,688	1	4,312	0	3,603	1	3,868
166	Cadmium		8,810		9,943		8,216		3		3		4	1	8,988	1	10,126	1	8,376	1	9,163
167	Chromium		83,789		92,358		76,312		15		21		32		87,051		97,483		81,496		88,677
168	Lead		97,190		104,566		86,399		35		45		49		106,092		115,822		95,322		105,745
169	SVM		106,000		114,509		94,615		39		47		53		115,057		125,966		103,697		114,907
170	LVM		92,877		102,655		84,951	17	16	1	24	0	35	1	96,457	0	108,437	1	90,497	0	98,463

	C	D	E	F	G
1	Process Information 2				
2					
3	204C1		Run 1	Run 2	Run3
4					
5	Combustion Temperature	F	2,600	2,600	2,600
6	ESP Power	kVA	707	707	707
7	ESP Temperature	F	599	599	599
8					
9	204C2		Run 1	Run 2	Run3
10					
11	Combustion Temperature	F	2,600	2,600	2,600
12	ESP Power	kVA	732	732	732
13	ESP Temperature	F	597	597	597
14					
15	204C3		Run 1	Run 2	Run3
16					
17	ESP Temperature	F	596	596	596
18					
19	204C5		Run 1	Run 2	Run3
20					
21	ESP Temperature	F	505	509	510
22					
23	204C6		Run 1	Run 2	Run3
24					
25	ESP Temperature	F	498	498	500
26					
27	204C7		Run 1	Run 2	Run3
28					
29	ESP Temperature	F	513	514	514
30					
31	204C8		Run 1		
32					
33	ESP Temperature	F	466		
34					
35	204C9		Run 1	Run 2	Run3
36					
37	Combustion Temperature	F	2,290	2,289	2,290
38	ESP Power	kVA	437	367	328
39	ESP Temperature	F	620	610	612
40					
41	204B1		Run 1	Run 2	Run3
42					
43	Combustion Temperature	F	1,945	1,824	1,809
44	ESP Power	kVA	460	480	449
45	ESP Temperature	F	577	583	577
46					
47	204B2		Run 1	Run 2	Run3
48					
49	Combustion Temperature	F	2,314	2,201	2,261
50	ESP Power	kVA	513	517	527
51	ESP Temperature	F	486	481	480
52					
53	204B3		Run 1	Run 2	Run3
54					
55	Combustion Temperature	F	2,512	2,297	2,364
56	ESP Power	kVA	371	379	406
57	ESP Temperature	F	540	512	529

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	204C2	I-TEF			R1				R2				R3	
2		Wght Fact		Total	Total	TEQ		Total	Total	TEQ		Total	Total	TEQ
3	ng/dscm			Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND
4														
5	4D 2378	1	1	0.0310	0.0155	0.0155	1	0.1343	0.0672	0.0672	1	0.0296	0.0148	0.0148
6		0												
7		0												
8	5D 12378	0.5	1	0.2123	0.1061	0.0531		0.0637	0.0637	0.0319		0.9829	0.9829	0.4915
9		0												
10		0												
11	6D 123478	0.1	1	0.1329	0.0665	0.0066		0.0856	0.0856	0.0086		0.1176	0.1176	0.0118
12	6D 123678	0.1	1	0.1244	0.0622	0.0062	1	0.1388	0.0694	0.0069	1	0.1534	0.0767	0.0077
13	6D 123789	0.1	1	0.1205	0.0602	0.0060	1	0.1346	0.0673	0.0067		0.1649	0.1649	0.0165
14		0												
15		0												
16	7D 1234678	0.01		0.1033	0.1033	0.0010		0.1230	0.1230	0.0012		0.1436	0.1436	0.0014
17		0												
18		0												
19	8D	0.001		0.0377	0.0377	0.0000	1	0.0411	0.0205	0.0000		0.1222	0.1222	0.0001
20	4F 2378	0.1		0.3824	0.3824	0.0382		0.7480	0.7480	0.0748		0.8466	0.8466	0.0847
21		0												
22		0												
23	5F 12378	0.05	1	0.1392	0.0696	0.0035	1	0.1973	0.0986	0.0049		0.0854	0.0854	0.0043
24	5F 23478	0.5		0.0643	0.0643	0.0321		0.1014	0.1014	0.0507		0.0890	0.0890	0.0445
25		0												
26		0												
27	6F 123478	0.1	1	0.0505	0.0252	0.0025	1	0.1143	0.0572	0.0057	1	0.1088	0.0544	0.0054
28	6F 123678	0.1	1	0.0445	0.0222	0.0022	1	0.1009	0.0504	0.0050	1	0.0962	0.0481	0.0048
29	6F 123789	0.1	1	0.0520	0.0260	0.0026	1	0.1180	0.0590	0.0059	1	0.1124	0.0562	0.0056
30	6F 234678	0.1	1	0.0619	0.0310	0.0031	1	0.1406	0.0703	0.0070	1	0.1338	0.0669	0.0067
31		0												
32		0												
33	7F 1234678	0.01	1	0.1009	0.0505	0.0005		0.1056	0.1056	0.0011	1	0.2599	0.1299	0.0013
34	7F 1234789	0.01	1	0.1218	0.0609	0.0006		0.0435	0.0435	0.0004	1	0.3113	0.1557	0.0016
35		0												
36		0												
37	8F	0.001		0.0229	0.0229	0.0000	1	0.0400	0.0200	0.0000	1	0.1096	0.0548	0.0001
38	Total PCDD/PCDF													
39	TEQ		74.1	0.2764		0.1739	56.5	0.3876		0.2781	12.8	0.7506		0.7027

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	204C3	I-TEF			R1				R2				R3	
2		Wght Fact		Total	Total	TEQ		Total	Total	TEQ		Total	Total	TEQ
3	ng/dscm			Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND
4														
5	4D 2378	1		0.09158	0.092	0.0916	1	0.063004	0.032	0.0315	1	0.083399	0.042	0.0417
6		0												
7		0												
8	5D 12378	0.5		0.518282	0.518	0.2591		0.188529	0.189	0.0943		0.295145	0.295	0.1476
9		0												
10		0												
11	6D 123478	0.1		0.961087	0.961	0.0961		0.323469	0.323	0.0323		0.454902	0.455	0.0455
12	6D 123678	0.1		0.611372	0.611	0.0611		0.170183	0.170	0.0170		0.260486	0.260	0.0260
13	6D 123789	0.1		0.762328	0.762	0.0762		0.427269	0.427	0.0427		0.398039	0.398	0.0398
14		0												
15		0												
16	7D 1234678	0.01		2.297048	2.297	0.0230		0.767635	0.768	0.0077		0.80691	0.807	0.0081
17		0												
18		0												
19	8D	0.001		0.142653	0.143	0.0001		0.059142	0.059	0.0001		0.278898	0.279	0.0003
20	4F 2378	0.1		5.736329	5.736	0.5736		2.462226	2.462	0.2462		1.887302	1.887	0.1887
21		0												
22		0												
23	5F 12378	0.05		0.442804	0.443	0.0221		0.177184	0.177	0.0089		0.175191	0.175	0.0088
24	5F 23478	0.5		0.961087	0.961	0.4805		0.391059	0.391	0.1955		0.335761	0.336	0.1679
25		0												
26		0												
27	6F 123478	0.1		0.294364	0.294	0.0294		0.128905	0.129	0.0129		0.126723	0.127	0.0127
28	6F 123678	0.1		0.131583	0.132	0.0132		0.0519	0.052	0.0052		0.047386	0.047	0.0047
29	6F 123789	0.1		0.081516	0.082	0.0082	1	0.089075	0.045	0.0045	1	0.080149	0.040	0.0040
30	6F 234678	0.1	1	0.53841	0.269	0.0269	1	0.106214	0.053	0.0053	1	0.095584	0.048	0.0048
31		0												
32		0												
33	7F 1234678	0.01		0.010315	0.010	0.0001		0.055038	0.055	0.0006		0.040075	0.040	0.0004
34	7F 1234789	0.01	1	0.091077	0.046	0.0005	1	0.152561	0.076	0.0008	1	0.141074	0.071	0.0007
35		0												
36		0												
37	8F	0.001	1	0.013334	0.007	0.0000	1	0.023898	0.012	0.0000	1	0.020037	0.010	0.0000
38	Total PCDD/PCDF													
39	TEQ		3.1	1.789244		1.7619	11.2	0.747417		0.7054	13.6	0.752848		0.7016

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	204C5	I-TEF			R1				R2				R3	
2		Wght Fact		Total	Total	TEQ		Total	Total	TEQ		Total	Total	TEQ
3	ng/dscm			Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND
4														
5	4D 2378	1	2	0.216	0.216	0.2160	2	0.006	0.006	0.0060	2	0.002	0.002	0.0020
6	4D Other	0		2.116	2.116	0.0000		1.03	1.030	0.0000		1.416	1.416	0.0000
7	4D Total	0		2.332	2.332	0.0000		1.036	1.036	0.0000		1.418	1.418	0.0000
8	5D 12378	0.5		0.076	0.076	0.0380		0.072	0.072	0.0360		0.095	0.095	0.0475
9	5D Other	0		7.652	7.652	0.0000		4.852	4.852	0.0000		6.726	6.726	0.0000
10	5D Total	0		7.728	7.728	0.0000		4.924	4.924	0.0000		6.821	6.821	0.0000
11	6D 123478	0.1		0.163	0.163	0.0163		0.188	0.188	0.0188		0.247	0.247	0.0247
12	6D 123678	0.1		0.093	0.093	0.0093	2	0.142	0.142	0.0142		0.308	0.308	0.0308
13	6D 123789	0.1		0.59	0.590	0.0590		0.93	0.930	0.0930		0.822	0.822	0.0822
14	6D Other	0		9.833	9.833	0.0000		14.929	14.929	0.0000		22.661	22.661	0.0000
15	6D Total	0		10.679	10.679	0.0000		16.189	16.189	0.0000		24.038	24.038	0.0000
16	7D 1234678	0.01		0.365	0.365	0.0037		0.655	0.655	0.0066		1.561	1.561	0.0156
17	7D Other	0		0.787	0.787	0.0000		1.733	1.733	0.0000		3.966	3.966	0.0000
18	7D Total	0		1.152	1.152	0.0000		2.388	2.388	0.0000		5.527	5.527	0.0000
19	8D	0.001		0.126	0.126	0.0001		0.211	0.211	0.0002		0.514	0.514	0.0005
20	4F 2378	0.1		0.079	0.079	0.0079		0.154	0.154	0.0154		0.247	0.247	0.0247
21	4F Other	0		7.284	7.284	0.0000		6.884	6.884	0.0000		16.21	16.210	0.0000
22	4F Total	0		7.363	7.363	0.0000		7.038	7.038	0.0000		16.457	16.457	0.0000
23	5F 12378	0.05		0.267	0.267	0.0134		0.127	0.127	0.0064		0.39	0.390	0.0195
24	5F 23478	0.5		1.124	1.124	0.5620		0.803	0.803	0.4015		0.966	0.966	0.4830
25	5F Other	0		5.747	5.747	0.0000		4.65	4.650	0.0000		7.478	7.478	0.0000
26	5F Total	0		7.138	7.138	0.0000		5.58	5.580	0.0000		8.834	8.834	0.0000
27	6F 123478	0.1		0.115	0.115	0.0115		0.402	0.402	0.0402		1.274	1.274	0.1274
28	6F 123678	0.1		0.062	0.062	0.0062		0.317	0.317	0.0317		0.37	0.370	0.0370
29	6F 123789	0.1		0.056	0.056	0.0056		0.275	0.275	0.0275		0.925	0.925	0.0925
30	6F 234678	0.1		0.393	0.393	0.0393		2.515	2.515	0.2515		4.767	4.767	0.4767
31	6F Other	0		-0.036	-0.036	0.0000		-0.402	-0.402	0.0000		0.718	0.718	0.0000
32	6F Total	0		0.59	0.590	0.0000		3.107	3.107	0.0000		8.054	8.054	0.0000
33	7F 1234678	0.01		0.056	0.056	0.0006		0.106	0.106	0.0011		0.288	0.288	0.0029
34	7F 1234789	0.01		0.112	0.112	0.0011		0.19	0.190	0.0019		0.637	0.637	0.0064
35	7F Other	0		-0.084	-0.084	0.0000		-0.148	-0.148	0.0000		-0.083	-0.083	0.0000
36	7F Total	0		0.084	0.084	0.0000		0.148	0.148	0.0000		0.842	0.842	0.0000
37	8F	0.001		0.084	0.084	0.0001		0.063	0.063	0.0001		0.062	0.062	0.0001
38	Total PCDD/PCDF			37.276	37.276			40.684	40.684			72.567	72.567	
39	TEQ		0.0	0.990		0.9900	0.0	0.952		0.952	0.0	1.473		1.473

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	204C6	I-TEF			R1				R2				R3	
2		Wght Fact		Total	Total	TEQ		Total	Total	TEQ		Total	Total	TEQ
3	ng/dscm			Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND
4														
5	4D 2378	1		0.011	0.011	0.0110		0.011	0.011	0.0110		0.011	0.011	0.0110
6	4D Other	0		13.73	13.730	0.0000		13.032	13.032	0.0000		9.254	9.254	0.0000
7	4D Total	0		13.741	13.741	0.0000		13.043	13.043	0.0000		9.265	9.265	0.0000
8	5D 12378	0.5		0.265	0.265	0.1325		0.321	0.321	0.1605		0.304	0.304	0.1520
9	5D Other	0		24.624	24.624	0.0000		27.529	27.529	0.0000		24.723	24.723	0.0000
10	5D Total	0		24.889	24.889	0.0000		27.85	27.850	0.0000		25.027	25.027	0.0000
11	6D 123478	0.1		0.513	0.513	0.0513		0.535	0.535	0.0535		0.426	0.426	0.0426
12	6D 123678	0.1		0.546	0.546	0.0546		0.641	0.641	0.0641		0.532	0.532	0.0532
13	6D 123789	0.1		0.883	0.883	0.0883		1.016	1.016	0.1016		0.958	0.958	0.0958
14	6D Other	0		34.536	34.536	0.0000		29.24	29.240	0.0000		32.536	32.536	0.0000
15	6D Total	0		36.478	36.478	0.0000		31.432	31.432	0.0000		34.452	34.452	0.0000
16	7D 1234678	0.01		2.87	2.870	0.0287		3.154	3.154	0.0315		2.716	2.716	0.0272
17	7D Other	0		6.236	6.236	0.0000		6.521	6.521	0.0000		6.283	6.283	0.0000
18	7D Total	0		9.106	9.106	0.0000		9.675	9.675	0.0000		8.999	8.999	0.0000
19	8D	0.001		1.104	1.104	0.0011		1.39	1.390	0.0014		1.225	1.225	0.0012
20	4F 2378	0.1		0.607	0.607	0.0607		0.535	0.535	0.0535		0.532	0.532	0.0532
21	4F Other	0		65.617	65.617	0.0000		60.938	60.938	0.0000		46.966	46.966	0.0000
22	4F Total	0		66.224	66.224	0.0000		61.473	61.473	0.0000		47.498	47.498	0.0000
23	5F 12378	0.05		0.993	0.993	0.0497		1.069	1.069	0.0535		0.852	0.852	0.0426
24	5F 23478	0.5		1.932	1.932	0.9660		2.512	2.512	1.2560		1.81	1.810	0.9050
25	5F Other	0		23.344	23.344	0.0000		24.216	24.216	0.0000		18.371	18.371	0.0000
26	5F Total	0		26.269	26.269	0.0000		27.797	27.797	0.0000		21.033	21.033	0.0000
27	6F 123478	0.1		1.766	1.766	0.1766		1.924	1.924	0.1924		2.023	2.023	0.2023
28	6F 123678	0.1		1.435	1.435	0.1435		1.497	1.497	0.1497		1.171	1.171	0.1171
29	6F 123789	0.1		0.392	0.392	0.0392	2	0.39	0.390	0.0390		0.399	0.399	0.0399
30	6F 234678	0.1		2.152	2.152	0.2152	2	2.78	2.780	0.2780		2.929	2.929	0.2929
31	6F Other	0		5.127	5.127	0.0000		0.144	0.144	0.0000		2.424	2.424	0.0000
32	6F Total	0		10.872	10.872	0.0000		6.735	6.735	0.0000		8.946	8.946	0.0000
33	7F 1234678	0.01		0.717	0.717	0.0072		0.855	0.855	0.0086		0.799	0.799	0.0080
34	7F 1234789	0.01		0.469	0.469	0.0047		0.396	0.396	0.0040		0.453	0.453	0.0045
35	7F Other	0		0.414	0.414	0.0000		0.46	0.460	0.0000		0.825	0.825	0.0000
36	7F Total	0		1.6	1.600	0.0000		1.711	1.711	0.0000		2.077	2.077	0.0000
37	8F	0.001		0.193	0.193	0.0002	2	0.219	0.219	0.0002		0.106	0.106	0.0001
38	Total PCDD/PCDF			190.476	190.476			181.325	181.325			158.628	158.628	
39	TEQ		0.0	2.030		2.0304	0.0	2.458		2.458	0.0	2.049		2.0486

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	204C7	I-TEF			R1				R2				R3	
2		Wght Fact		Total	Total	TEQ		Total	Total	TEQ		Total	Total	TEQ
3	ng/dscm			Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND
4														
5	4D 2378	1	2	0.028	0.028	0.0280		0.018	0.018	0.0180	2	0.024	0.024	0.0240
6	4D Other	0		7.055	7.055	0.0000		4.569	4.569	0.0000		16.483	16.483	0.0000
7	4D Total	0		7.083	7.083	0.0000		4.587	4.587	0.0000		16.507	16.507	0.0000
8	5D 12378	0.5		0.245	0.245	0.1225		0.151	0.151	0.0755		0.24	0.240	0.1200
9	5D Other	0		15.762	15.762	0.0000		10.17	10.170	0.0000		24.01	24.010	0.0000
10	5D Total	0		16.007	16.007	0.0000		10.321	10.321	0.0000		24.25	24.250	0.0000
11	6D 123478	0.1		0.39	0.390	0.0390		0.211	0.211	0.0211		0.336	0.336	0.0336
12	6D 123678	0.1		0.413	0.413	0.0413		0.272	0.272	0.0272		0.36	0.360	0.0360
13	6D 123789	0.1		0.837	0.837	0.0837		0.471	0.471	0.0471		0.594	0.594	0.0594
14	6D Other	0		22.23	22.230	0.0000		12.385	12.385	0.0000		26.441	26.441	0.0000
15	6D Total	0		23.87	23.870	0.0000		13.339	13.339	0.0000		27.731	27.731	0.0000
16	7D 1234678	0.01		1.673	1.673	0.0167		1.086	1.086	0.0109		1.381	1.381	0.0138
17	7D Other	0		3.458	3.458	0.0000		1.992	1.992	0.0000		2.941	2.941	0.0000
18	7D Total	0		5.131	5.131	0.0000		3.078	3.078	0.0000		4.322	4.322	0.0000
19	8D	0.001		0.725	0.725	0.0007		0.567	0.567	0.0006		0.582	0.582	0.0006
20	4F 2378	0.1		0.508	0.508	0.0508		0.26	0.260	0.0260	2	0.348	0.348	0.0348
21	4F Other	0		32.621	32.621	0.0000		17.847	17.847	0.0000		34.646	34.646	0.0000
22	4F Total	0		33.129	33.129	0.0000		18.107	18.107	0.0000		34.994	34.994	0.0000
23	5F 12378	0.05	2	0.725	0.725	0.0363	2	0.374	0.374	0.0187		0.78	0.780	0.0390
24	5F 23478	0.5		1.84	1.840	0.9200		0.785	0.785	0.3925		1.2	1.200	0.6000
25	5F Other	0		6.972	6.972	0.0000		5.722	5.722	0.0000		13.806	13.806	0.0000
26	5F Total	0		9.537	9.537	0.0000		6.881	6.881	0.0000		15.786	15.786	0.0000
27	6F 123478	0.1		1.617	1.617	0.1617		0.905	0.905	0.0905		0.78	0.780	0.0780
28	6F 123678	0.1		0.781	0.781	0.0781		0.392	0.392	0.0392		0.78	0.780	0.0780
29	6F 123789	0.1	2	0.357	0.357	0.0357	2	0.199	0.199	0.0199		0.198	0.198	0.0198
30	6F 234678	0.1		2.51	2.510	0.2510		1.449	1.449	0.1449		0.9	0.900	0.0900
31	6F Other	0		1.874	1.874	0.0000		1.159	1.159	0.0000		1.604	1.604	0.0000
32	6F Total	0		7.139	7.139	0.0000		4.104	4.104	0.0000		4.262	4.262	0.0000
33	7F 1234678	0.01		0.446	0.446	0.0045		0.26	0.260	0.0026		0.348	0.348	0.0035
34	7F 1234789	0.01		0.167	0.167	0.0017		0.241	0.241	0.0024	2	0.096	0.096	0.0010
35	7F Other	0		0.224	0.224	0.0000		-0.163	-0.163	0.0000		0.156	0.156	0.0000
36	7F Total	0		0.837	0.837	0.0000		0.338	0.338	0.0000		0.6	0.600	0.0000
37	8F	0.001		0.167	0.167	0.0002		0.181	0.181	0.0002		0.12	0.120	0.0001
38	Total PCDD/PCDF			103.625	103.625			61.503	61.503			129.154	129.154	
39	TEQ		0.0	1.872		1.8718	0.0	0.937		0.9372	0.0	1.232		1.232

	C	D	E	F	G	H
1	204C8	I-TEF			R1	
2		Wght Fact		Total	Total	TEQ
3	ng/dscm			Full ND	1/2 ND	1/2 ND
4						
5	4D 2378	1	2	0.006	0.006	0.0060
6	4D Other	0		0.978	0.978	0.0000
7	4D Total	0		0.984	0.984	0.0000
8	5D 12378	0.5		0.017	0.017	0.0085
9	5D Other	0		1.662	1.662	0.0000
10	5D Total	0		1.679	1.679	0.0000
11	6D 123478	0.1	2	0.023	0.023	0.0023
12	6D 123678	0.1		0.029	0.029	0.0029
13	6D 123789	0.1		0.046	0.046	0.0046
14	6D Other	0		1.523	1.523	0.0000
15	6D Total	0		1.621	1.621	0.0000
16	7D 1234678	0.01	2	0.116	0.116	0.0012
17	7D Other	0		0.191	0.191	0.0000
18	7D Total	0	2	0.307	0.307	0.0000
19	8D	0.001	2	0.122	0.122	0.0001
20	4F 2378	0.1		0.046	0.046	0.0046
21	4F Other	0		2.385	2.385	0.0000
22	4F Total	0		2.431	2.431	0.0000
23	5F 12378	0.05	2	0.029	0.029	0.0015
24	5F 23478	0.5		0.058	0.058	0.0290
25	5F Other	0		0.434	0.434	0.0000
26	5F Total	0		0.521	0.521	0.0000
27	6F 123478	0.1		0.046	0.046	0.0046
28	6F 123678	0.1		0.029	0.029	0.0029
29	6F 123789	0.1		0.041	0.041	0.0041
30	6F 234678	0.1		0.046	0.046	0.0046
31	6F Other	0		0.017	0.017	0.0000
32	6F Total	0		0.179	0.179	0.0000
33	7F 1234678	0.01		0.029	0.029	0.0003
34	7F 1234789	0.01		0.116	0.116	0.0012
35	7F Other	0		-0.11	-0.110	0.0000
36	7F Total	0		0.035	0.035	0.0000
37	8F	0.001		0.116	0.116	0.0001
38	Total PCDD/PCDF			7.995	7.995	
39	TEQ		0.0	0.078		0.078

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	204C9	I-TEF			R1				R2				R3	
2		Wght Fact		Total	Total	TEQ		Total	Total	TEQ		Total	Total	TEQ
3	ng/dscm			Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND
4														
5	4D 2378	1		0.508	0.508	0.5080		0.539	0.539	0.5390		0.483	0.483	0.4830
6	4D Other	0		580.392	580.392	0.0000		541.061	541.061	0.0000		408.217	408.217	0.0000
7	4D Total	0		580.9	580.900	0.0000		541.6	541.600	0.0000		408.7	408.700	0.0000
8	5D 12378	0.5		3.998	3.998	1.9990		3.872	3.872	1.9360		2.897	2.897	1.4485
9	5D Other	0		497.402	497.402	0.0000		459.328	459.328	0.0000		298.703	298.703	0.0000
10	5D Total	0		501.4	501.400	0.0000		463.2	463.200	0.0000		301.6	301.600	0.0000
11	6D 123478	0.1		4.594	4.594	0.4594		5.22	5.220	0.5220		4.023	4.023	0.4023
12	6D 123678	0.1		3.49	3.490	0.3490		4.289	4.289	0.4289		2.768	2.768	0.2768
13	6D 123789	0.1		6.141	6.141	0.6141		6.495	6.495	0.6495		4.57	4.570	0.4570
14	6D Other	0		409.875	409.875	0.0000		523.196	523.196	0.0000		290.839	290.839	0.0000
15	6D Total	0		424.1	424.100	0.0000		539.2	539.200	0.0000		302.2	302.200	0.0000
16	7D 1234678	0.01		7.4	7.400	0.0740		10.78	10.780	0.1078		6.726	6.726	0.0673
17	7D Other	0		10.73	10.730	0.0000		15.69	15.690	0.0000		10.714	10.714	0.0000
18	7D Total	0		18.13	18.130	0.0000		26.47	26.470	0.0000		17.44	17.440	0.0000
19	8D	0.001		1.347	1.347	0.0013		2.132	2.132	0.0021		1.352	1.352	0.0014
20	4F 2378	0.1		3.578	3.578	0.3578		4.338	4.338	0.4338		4.023	4.023	0.4023
21	4F Other	0		171.622	171.622	0.0000		203.262	203.262	0.0000		181.377	181.377	0.0000
22	4F Total	0		175.2	175.200	0.0000		207.6	207.600	0.0000		185.4	185.400	0.0000
23	5F 12378	0.05	2	1.48	1.480	0.0740	2	2.108	2.108	0.1054	2	1.867	1.867	0.0934
24	5F 23478	0.5		3.556	3.556	1.7780	2	4.264	4.264	2.1320		3.605	3.605	1.8025
25	5F Other	0		31.634	31.634	0.0000		22.788	22.788	0.0000		26.258	26.258	0.0000
26	5F Total	0		36.67	36.670	0.0000		29.16	29.160	0.0000		31.73	31.730	0.0000
27	6F 123478	0.1		1.679	1.679	0.1679		2.157	2.157	0.2157		1.738	1.738	0.1738
28	6F 123678	0.1		0.663	0.663	0.0663		0.0809	0.081	0.0081		0.676	0.676	0.0676
29	6F 123789	0.1		0.093	0.093	0.0093	2	0.093	0.093	0.0093	1	0.129	0.065	0.0065
30	6F 234678	0.1		0.552	0.552	0.0552		0.784	0.784	0.0784		0.676	0.676	0.0676
31	6F Other	0		5.539	5.539	0.0000		7.4251	7.425	0.0000		4.891	4.891	0.0000
32	6F Total	0		8.526	8.526	0.0000		10.54	10.540	0.0000		8.11	8.110	0.0000
33	7F 1234678	0.01		0.265	0.265	0.0027		0.368	0.368	0.0037		0.322	0.322	0.0032
34	7F 1234789	0.01	1	0.155	0.078	0.0008	2	0.056	0.056	0.0006	1	0.129	0.065	0.0006
35	7F Other	0		0.044	0.044	0.0000		0.189	0.189	0.0000		0.096	0.096	0.0000
36	7F Total	0		0.464	0.464	0.0000		0.613	0.613	0.0000		0.547	0.547	0.0000
37	8F	0.001	1	0.442	0.221	0.0002	1	0.172	0.086	0.0001	1	0.418	0.209	0.0002
38	Total PCDD/PCDF			1747.179	1746.958			1820.687	1820.601			1257.497	1257.288	
39	TEQ		0.0	6.518		6.5170	0.0	7.172		7.172	0.3	5.761		5.754

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	204B1	I-TEF			R1				R2				R3	
2		Wght Fact		Total	Total	TEQ		Total	Total	TEQ		Total	Total	TEQ
3	ng/dscm			Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND
4														
5	4D 2378	1		0.444	0.444	0.4440		0.209	0.209	0.2090		0.283	0.283	0.2830
6	4D Other	0		426.893	426.893	0.0000		272.629	272.629	0.0000		280.598	280.598	0.0000
7	4D Total	0		427.337	427.337	0.0000		272.838	272.838	0.0000		280.881	280.881	0.0000
8	5D 12378	0.5		2.22	2.220	1.1100		1.683	1.683	0.8415		1.727	1.727	0.8635
9	5D Other	0		330.77	330.770	0.0000		225.257	225.257	0.0000		220.916	220.916	0.0000
10	5D Total	0		332.99	332.990	0.0000		226.94	226.940	0.0000		222.643	222.643	0.0000
11	6D 123478	0.1		3.191	3.191	0.3191		2.346	2.346	0.2346		2.809	2.809	0.2809
12	6D 123678	0.1		2.22	2.220	0.2220		1.734	1.734	0.1734		1.83	1.830	0.1830
13	6D 123789	0.1		4.745	4.745	0.4745		2.703	2.703	0.2703		3.53	3.530	0.3530
14	6D Other	0		372.782	372.782	0.0000		250.756	250.756	0.0000		234.316	234.316	0.0000
15	6D Total	0		382.938	382.938	0.0000		257.539	257.539	0.0000		242.485	242.485	0.0000
16	7D 1234678	0.01		9.351	9.351	0.0935		5.916	5.916	0.0592		5.592	5.592	0.0559
17	7D Other	0		14.125	14.125	0.0000		8.95	8.950	0.0000		8.375	8.375	0.0000
18	7D Total	0		23.476	23.476	0.0000		14.866	14.866	0.0000		13.967	13.967	0.0000
19	8D	0.001		2.331	2.331	0.0023		1.657	1.657	0.0017		1.288	1.288	0.0013
20	4F 2378	0.1		2.608	2.608	0.2608		1.632	1.632	0.1632		2.268	2.268	0.2268
21	4F Other	0		146.405	146.405	0.0000		101.894	101.894	0.0000		111.373	111.373	0.0000
22	4F Total	0		149.013	149.013	0.0000		103.526	103.526	0.0000		113.641	113.641	0.0000
23	5F 12378	0.05	2	1.471	1.471	0.0736	2	0.994	0.994	0.0497	2	1.108	1.108	0.0554
24	5F 23478	0.5	2	3.052	3.052	1.5260	2	1.912	1.912	0.9560	2	2.422	2.422	1.2110
25	5F Other	0		20.867	20.867	0.0000		14.688	14.688	0.0000		13.246	13.246	0.0000
26	5F Total	0		25.39	25.390	0.0000		17.594	17.594	0.0000		16.776	16.776	0.0000
27	6F 123478	0.1		1.471	1.471	0.1471		1.045	1.045	0.1045		1.057	1.057	0.1057
28	6F 123678	0.1		0.583	0.583	0.0583		0.408	0.408	0.0408		0.438	0.438	0.0438
29	6F 123789	0.1	2	0.075	0.075	0.0075		0.056	0.056	0.0056	2	0.059	0.059	0.0059
30	6F 234678	0.1		0.444	0.444	0.0444		0.331	0.331	0.0331		0.412	0.412	0.0412
31	6F Other	0		4.864	4.864	0.0000		3.209	3.209	0.0000		3.471	3.471	0.0000
32	6F Total	0		7.437	7.437	0.0000		5.049	5.049	0.0000		5.437	5.437	0.0000
33	7F 1234678	0.01		0.277	0.277	0.0028		0.207	0.207	0.0021		0.204	0.204	0.0020
34	7F 1234789	0.01		0.047	0.047	0.0005	1	0.051	0.026	0.0003		0.021	0.021	0.0002
35	7F Other	0		0.175	0.175	0.0000		0.073	0.073	0.0000		0.136	0.136	0.0000
36	7F Total	0		0.499	0.499	0.0000		0.331	0.331	0.0000		0.361	0.361	0.0000
37	8F	0.001	1	0.277	0.139	0.0001	1	0.178	0.089	0.0001	1	0.155	0.078	0.0001
38	Total PCDD/PCDF			1351.688	1351.550			900.518	900.429			897.634	897.557	
39	TEQ		0.0	4.787		4.7865	0.0	3.145		3.1449	0.0	3.713		3.713

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	204B2	I-TEF			R1				R2				R3	
2		Wght Fact		Total	Total	TEQ		Total	Total	TEQ		Total	Total	TEQ
3	ng/dscm			Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND
4														
5	4D 2378	1		0.057	0.057	0.0570		0.031	0.031	0.0310		0.05	0.050	0.0500
6	4D Other	0		21.143	21.143	0.0000		15.569	15.569	0.0000		37.45	37.450	0.0000
7	4D Total	0		21.2	21.200	0.0000		15.6	15.600	0.0000		37.5	37.500	0.0000
8	5D 12378	0.5		0.19	0.190	0.0950		0.173	0.173	0.0865	2	0.361	0.361	0.1805
9	5D Other	0		20.01	20.010	0.0000		16.927	16.927	0.0000		42.339	42.339	0.0000
10	5D Total	0		20.2	20.200	0.0000		17.1	17.100	0.0000		42.7	42.700	0.0000
11	6D 123478	0.1		0.326	0.326	0.0326		0.289	0.289	0.0289		0.832	0.832	0.0832
12	6D 123678	0.1	2	0.267	0.267	0.0267		0.218	0.218	0.0218		0.499	0.499	0.0499
13	6D 123789	0.1		0.49	0.490	0.0490		0.367	0.367	0.0367		0.832	0.832	0.0832
14	6D Other	0		43.517	43.517	0.0000		32.726	32.726	0.0000		102.837	102.837	0.0000
15	6D Total	0		44.6	44.600	0.0000		33.6	33.600	0.0000		105	105.000	0.0000
16	7D 1234678	0.01		2.01	2.010	0.0201		1.21	1.210	0.0121		3.16	3.160	0.0316
17	7D Other	0		3.73	3.730	0.0000		2.2	2.200	0.0000		6.24	6.240	0.0000
18	7D Total	0		5.74	5.740	0.0000		3.41	3.410	0.0000		9.4	9.400	0.0000
19	8D	0.001		0.925	0.925	0.0009		0.577	0.577	0.0006		1.3	1.300	0.0013
20	4F 2378	0.1		0.141	0.141	0.0141		0.15	0.150	0.0150		0.333	0.333	0.0333
21	4F Other	0		15.159	15.159	0.0000		17.65	17.650	0.0000		37.367	37.367	0.0000
22	4F Total	0		15.3	15.300	0.0000		17.8	17.800	0.0000		37.7	37.700	0.0000
23	5F 12378	0.05	2	0.299	0.299	0.0150	2	0.147	0.147	0.0074	2	0.305	0.305	0.0153
24	5F 23478	0.5	2	0.68	0.680	0.3400	2	0.394	0.394	0.1970	2	0.999	0.999	0.4995
25	5F Other	0		4.301	4.301	0.0000		2.159	2.159	0.0000		4.696	4.696	0.0000
26	5F Total	0		5.28	5.280	0.0000		2.7	2.700	0.0000		6	6.000	0.0000
27	6F 123478	0.1		0.354	0.354	0.0354		0.254	0.254	0.0254		0.499	0.499	0.0499
28	6F 123678	0.1		0.188	0.188	0.0188		0.131	0.131	0.0131		0.277	0.277	0.0277
29	6F 123789	0.1	1	0.027	0.014	0.0014	2	0.021	0.021	0.0021	2	0.064	0.064	0.0064
30	6F 234678	0.1		0.155	0.155	0.0155	2	0.068	0.068	0.0068	2	0.264	0.264	0.0264
31	6F Other	0		1.236	1.236	0.0000		0.706	0.706	0.0000		1.196	1.196	0.0000
32	6F Total	0		1.96	1.960	0.0000		1.18	1.180	0.0000		2.3	2.300	0.0000
33	7F 1234678	0.01		0.174	0.174	0.0017		0.115	0.115	0.0012	2	0.175	0.175	0.0018
34	7F 1234789	0.01	1	0.027	0.014	0.0001	1	0.026	0.013	0.0001	1	0.139	0.070	0.0007
35	7F Other	0		0.025	0.025	0.0000		-0.007	-0.007	0.0000		-0.114	-0.114	0.0000
36	7F Total	0		0.226	0.226	0.0000		0.134	0.134	0.0000	2	0.2	0.200	0.0000
37	8F	0.001	2	0.033	0.033	0.0000	1	0.052	0.026	0.0000	1	0.25	0.125	0.0001
38	Total PCDD/PCDF			115.464	115.464			92.153	92.127			242.35	242.225	
39	TEQ		0.4	0.725		0.7233	0.1	0.486		0.4856	0.1	1.142		1.141