

	B	C
1	Source Description	
2		
3	Phase I ID No.	3000
4	EPA ID No.	ARD006354161
5	Facility Name	Reynolds Metals Company
6	Facility Location	
7	City	Gum Springs
8	State	AR
9	Unit ID Name/No.	Reynolds Potliner thermal treatment process
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Rotary kiln
14	Combustor Characteristics	2 rotary kilns with a common afterburner
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	DS/FF/AB
18	APCS General Class	DS, FF, AB
19	APCS Characteristics	Dry scrubber, fabric filter, Afterburner. Afterburner is natural gas fired and operates at 1750 - 1800 °F with a residence time of 2 seconds.
20	Hazardous Wastes	Liq, solid
21	Haz Waste Description	Potliner mixture - having from spent aluminum potliner; landfill leachate
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	
26	Height (ft)	
27	Gas Velocity (ft/sec)	23.3
28	Gas Temperature (°F)	1100
29		
30	Permitting Status	Tier I for all metals except Tier III for arsenic, beryllium, and chromium (test 1), chlorine (test 2)
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	3000C1	
4		
5	Report Name/Date	Trial Burn Report, Oct 2000
6	Report Prepare	Focus
7	Testing Firm	Entropy
8	Testing Dates	November 4-6, 1998
9	Cond Dates	Nov-98
10	Condition Descr	TB, One kiln operating, max metals feed, Worst case for spiked metals
11	Content	(As, Be, Cr), max temp
12		DRE, metals, D/F
13	3000C2	
14		
15	Report Name/Date	Trial Burn Report, Oct 2000
16	Report Prepare	Focus
17	Testing Firm	Entropy
18	Testing Dates	November 9-11, 1998
19	Cond Dates	Nov-98
20	Condition Descr	TB, Two kilns operating, worst case for PM and HCl, min temp, no
21	Content	spiking
		PM, HCl/Cl ₂ , DRE, metals, D/F

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1		Stack Gas Emissions 1													
2															
3															
4	1	3000C1	Trial Burn				R1		R2		R3		Cond Avg		
5															
6		CO (RA)	E1	ppmv	y		0		0		0		0.0		
7		HC (RA)	E1	ppmv	y		0		0		0		0.0		
8															
9		POHC DRE	Cyanide												
10		POHC Feedrate	lb/hr				11.2		22		5.01				
11		Emission Rate	E2	lb/hr		nd	4.29E-04	nd	4.76E-04	nd	4.22E-04				
12		DRE	E2	%		>	99.9962	>	99.9978	>	99.9916				
13															
14		POHC DRE	Napthalene												
15		POHC Feedrate	lb/hr				9.97E+01		9.97E+01		9.98E+01				
16		Emission Rate	E2	lb/hr			6.21E-04		2.08E-03		1.80E-03				
17		DRE	E2	%			99.9994		99.9979		99.9982				
18															
19		Antimony		ug/dscm	n	nd	1.8	nd	1.3	nd	1.8				
20		Aluminum		ug/dscm	n		617.0		445.0	nd	275.0				
21		Arsenic		ug/dscm	n		0.5	nd	0.3	nd	0.4				
22		Barium		ug/dscm	n	nd	3.9	nd	3.2	nd	2.7				
23		Beryllium		ug/dscm	n		0.1		0.1	nd	0.1				
24		Cadmium		ug/dscm	n		0.6	nd	0.1	nd	0.1				
25		Copper		ug/dscm	n	nd	2.6	nd	1.2	nd	1.3				
26		Chromium		ug/dscm	n	nd	29.3	nd	16.7	nd	11.2				
27		Lead		ug/dscm	n		6.3		3.4		2.2				
28		Mercury		ug/dscm	n	nd	2.4	nd	2.0	nd	2.6				
29		Nickel		ug/dscm	n	nd	4.7	nd	2.4	nd	2.2				
30		Selenium		ug/dscm	n	nd	1.8	nd	1.4	nd	1.8				
31		Silver		ug/dscm	n		0.2	nd	0.1	nd	0.2				
32		Thallium		ug/dscm	n	nd	0.2	nd	0.2	nd	0.2				
33		Zinc		ug/dscm	n	nd	28.7	nd	5.8	nd	4.4				
34															
35		Sampling Train	Metals	E1											
36		Stack Gas Flowrate		dscfm			33588		42106		32635		36110.0		
37		O2		%			10.4		10.6		11.2		10.7		
38		Moisture		%			12.9		12.4		11.5		12.3		
39		Temperature		°F			1038		1046		1026		1037.0		
40															
41		Sampling Train	DRE	E2											
42		Stack Gas Flowrate		dscfm			37287		41602		37195		38694.7		
43		O2		%			10.5		10.8		11.1		10.8		
44		Moisture		%			12.3		11.7		11.3		11.8		
45		Temperature		°F			1042		1042		1028		1037.3		
46															
47		Antimony	E1	ug/dscm	y	nd	2.41	nd	1.74	nd	2.53		2.23		
48		Aluminum	E1	ug/dscm	y		822.67		610.78	nd	388.89		607.45		
49		Arsenic	E1	ug/dscm	y		0.67	nd	0.42	nd	0.53		0.54		
50		Barium	E1	ug/dscm	y	nd	5.16	nd	4.45	nd	3.76		4.46		
51		Beryllium	E1	ug/dscm	y		0.12		0.08	nd	0.11		0.10		
52		Cadmium	E1	ug/dscm	y		0.80	nd	0.08	nd	0.11		0.33		
53		Copper	E1	ug/dscm	y	nd	3.41	nd	1.58	nd	1.81		2.27		
54		Chromium	E1	ug/dscm	y	nd	39.07	nd	22.92	nd	15.84		25.94	high nd?	
55		Lead	E1	ug/dscm	y		8.45		4.65		3.17		5.42		
56		Mercury	E1	ug/dscm	y	nd	3.17	nd	2.79	nd	3.63		3.20		
57		Nickel	E1	ug/dscm	y	nd	6.32	nd	3.32	nd	3.14		4.26		
58		Selenium	E1	ug/dscm	y	nd	2.33	nd	1.88	nd	2.57		2.26		
59		Silver	E1	ug/dscm	y		0.23	nd	0.17	nd	0.21		0.20		
60		Thallium	E1	ug/dscm	y	nd	0.30	nd	0.25	nd	0.32		0.29		
61		Zinc	E1	ug/dscm	y	nd	38.27	nd	7.91	nd	6.21		17.46		
62		SVM	E1	ug/dscm	y		9.25		4.74		3.27		5.75		
63		LVM	E1	ug/dscm	y		39.86		23.42		16.48		26.59		
64															
65	2	3000C2	Trial Burn				R1		R2		R3		Cond Avg		
66															
67		PM	E1	gr/dscf	y		0.00022		0.001		0.00168		0.0010		
68		CO (RA)	E1	ppmv	y		0		0		0		0		
69		HC	E1	ppmv	y		0		0		0		0		
70															
71		HCl		lb/hr			0.0246		0.0364		0.0256				

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
72		Cl2		lb/hr			0.0143		0.0376		0.00825				
73															
74		POHC DRE	Cyanide												
75		POHC Feedrate		lb/hr			15.7		37.3		32.5				
76		Emission Rate	E1	lb/hr		nd	7.49E-04	nd	7.59E-04	nd	6.49E-04				
77		DRE	E1	%		>	99.9952	>	99.998	>	99.998				
78															
79		Antimony		ug/dscm	n	nd	2.0	nd	2.0	nd	1.7				
80		Aluminum		ug/dscm	n		551.0		615.0	nd	451.0				
81		Arsenic		ug/dscm	n	nd	0.4	nd	0.4	nd	0.3				
82		Barium		ug/dscm	n	nd	4.3	nd	3.5	nd	2.7				
83		Beryllium		ug/dscm	n	nd	0.1	nd	0.1	nd	0.1				
84		Cadmium		ug/dscm	n	nd	0.1	nd	0.1		0.3				
85		Copper		ug/dscm	n	nd	0.9	nd	1.1	nd	1.1				
86		Chromium		ug/dscm	n		32.3		12.6		12.7				
87		Lead		ug/dscm	n		1.9		4.5		3.7				
88		Mercury		ug/dscm	n	nd	2.7	nd	2.8	nd	2.2				
89		Nickel		ug/dscm	n	nd	2.5	nd	4.7	nd	2.5				
90		Selenium		ug/dscm	n	nd	2.0	nd	2.0	nd	1.7				
91		Silver		ug/dscm	n	nd	0.1	nd	0.2	nd	0.1				
92		Thallium		ug/dscm	n	nd	0.2	nd	0.2	nd	0.2				
93		Zinc		ug/dscm	n	nd	4.8	nd	5.3	nd	16.9				
94															
95		Sampling Train	PM, HCl/CE1												
96		Stack Gas Flowrate		dscfm			52623		52198		54544		53121.7		
97		O2		%			9.8		9.2		9.4		9.5		
98		Moisture		%			16.1		14.9		14.6		15.2		
99		Temperature		°F			1204		1217		1226		1215.7		
100															
101		Sampling Train	Metals	E2											
102		Stack Gas Flowrate		dscfm			53025		51918		53445		52796.0		
103		O2		%			9.8		9.2		9.4		9.6		
104		Moisture		%			17.2		16		14.9		16.0		
105		Temperature		°F			1202		1210		1221		1211.0		
106															
107		HCl	E1	ppmv	y		0.10		0.15		0.10		0.12		
108		Cl2	E1	ppmv	y		0.03		0.08		0.02		0.04		
109		Total Chlorine	E1	ppmv	y		0.17		0.30		0.13		0.20		
110															
111		Antimony	E2	ug/dscm	y	nd	2.45	nd	2.37	nd	1.99	100	2.27		
112		Aluminum	E2	ug/dscm	y		688.75		729.66	nd	544.31		654.24		
113		Arsenic	E2	ug/dscm	y	nd	0.45	nd	0.46	nd	0.39	100	0.43		
114		Barium	E2	ug/dscm	y	nd	5.40	nd	4.18	nd	3.22	100	4.27		
115		Beryllium	E2	ug/dscm	y	nd	0.09	nd	0.09	nd	0.08	100	0.09		
116		Cadmium	E2	ug/dscm	y	nd	0.09	nd	0.09	nd	0.40	100	0.19		
117		Copper	E2	ug/dscm	y	nd	1.17	nd	1.26	nd	1.35	100	1.26		
118		Chromium	E2	ug/dscm	y		40.38		14.95		15.33		23.55		
119		Lead	E2	ug/dscm	y		2.39		5.39		4.43		4.07		
120		Mercury	E2	ug/dscm	y	nd	3.40	nd	3.30	nd	2.70	100	3.13		
121		Nickel	E2	ug/dscm	y	nd	3.18	nd	5.55	nd	2.97	100	3.90		
122		Selenium	E2	ug/dscm	y	nd	2.49	nd	2.38	nd	2.08	100	2.32		
123		Silver	E2	ug/dscm	y	nd	0.18	nd	0.18	nd	0.16	100	0.17		
124		Thallium	E2	ug/dscm	y	nd	0.27	nd	0.28	nd	0.24	100	0.26		
125		Zinc	E2	ug/dscm	y	nd	6.01	nd	6.29	nd	20.40	100	10.90		
126		SVM	E2	ug/dscm	y		2.48		5.48		4.83		4.26		
127		LVM	E2	ug/dscm	y		40.92		15.50		15.80		24.07		

Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1																		
2																		
3	R3	Cond Avg	R1	F3	R2	F3	R3	F3	Cond Avg	R1	F4	R2	F4	R3	F4	Cond Avg		
4				Spike	Spike	Spike	Spike	Spike	F3	F4	Total	Total	Total	Total	Total	Total	F4	
5				Spike	Spike	Spike	Spike	Spike	Spike	Total	Total	Total	Total	Total	Total	Total	Total	Total
6				Spike	Spike	Spike	Spike	Spike	Spike	Total	Total	Total	Total	Total	Total	Total	Total	Total
7	HW	HW																
8																		
9																		
10				1.5	1.5	1.5	1.5	1.5	1.5	43988.5	2.5	43993.5	2.5	45790.5	2.7	44191.5	2.6	
11																		
12																		
13																		
14				1	1	1	1	1	1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15										2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
16				0.5	0.5	0.5	0.5	0.5	0.5	2.9	3.5	3.5	3.5	5.1	5.1	3.9	3.9	3.9
17										0.6	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7
18										0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19				1.04	1.04	1.04	1.02	1.02	1.02	1.8	1.5	1.5	1.5	1.7	1.7	1.6	1.6	1.6
20										0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
21										0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22										0.6	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5
23										0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
24										0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
25										1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
26																		
27				33588	42106	32635	36110	36110	36110	33588	42106	32635	36110	36110	36110	36110	36110	36110
28				10.4	10.6	11.2	10.7	10.7	10.7	10.4	10.6	11.2	10.7	11.2	11.2	10.7	10.7	10.7
29																		
30																		
31																		
32																		
33	535917	458144		16	13	17	15	15	15	462483	376060	535935	458159	535935	458159	458159	458159	458159
34	31133	26262								26284	21370	31133	26262	31133	31133	26262	26262	26262
35	30204549	90727203								227100656	14876405	30204549	90727203	30204549	90727203	90727203	90727203	90727203
36	212195	245556								379755	144719	212195	245556	212195	245556	245556	245556	245556
37	2692	2359								2418	1966	2692	2359	2692	2359	2359	2359	2359
38	14630	12819								10255	19233	14630	12819	14630	12819	12819	12819	12819
39	59691	40287								30910	30260	59691	40287	59691	40287	40287	40287	40287
40	3628	2235								6624	5984	3628	2235	3628	2235	2235	2235	2235
41	234	205								210	171	234	205	234	205	205	205	205
42	7725	6437								18504	12908	7725	6437	7725	6437	6437	6437	6437
43	3043	2666								2734	2223	3043	2666	3043	2666	2666	2666	2666
44	117	103								105	85	117	103	117	103	103	103	103
45	4916	2								6413	4445	4916	2	4916	1	5258	5258	5258
46	468	410								421	342	468	410	468	410	410	410	410
47	5735	5025								5152	4189	5735	5025	5735	5025	5025	5025	5025
48	14630	12819								13142	10685	14630	12819	14630	12819	12819	12819	12819
49	3277	2871								2944	2393	3277	2871	3277	2871	2871	2871	2871
50	25983	21491								43527	33850	25983	21491	43527	33850	42334	42334	42334
51																		
52	R3	Cond Avg	R1	F3	R2	F3	R3	F3	Cond Avg	R1	F4	R2	F4	R3	F4	Cond Avg		
53				Spike	Spike	Spike	Spike	Spike	F3	F4	Total	Total	Total	Total	Total	Total	F4	
54				Spike	Spike	Spike	Spike	Spike	Spike	Total	Total	Total	Total	Total	Total	Total	Total	Total
55				Spike	Spike	Spike	Spike	Spike	Spike	Total	Total	Total	Total	Total	Total	Total	Total	Total
56	HW	HW																
57																		
58																		

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	
59	Ash	lb/hr	87600	87600	87600	87600	96000	96000	96000	90400.0	307	307	307	313	306	306	308.7	308.7						
60	Chlorine	lb/hr	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	0.19	nd	0.2	nd	0.2	0.2	0.2						
61	Fluoride	lb/hr	3600	5160	5160	3720	3720	3720	3720	4160.0	1.39	1.39	1.39	2.07	1.99	1.99	1.8	1.8						
62	Phosphorus	lb/hr	32.4	27.6	27.6	26.4	26.4	26.4	26.4	30.0	0.2	0.2	0.2	0.26	0.21	0.21	0.2	0.2						
63	Antimony	lb/hr	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.1	0.1	0.1	0.1	0.1	0.1	0.10	0.10						
64	Arsenic	lb/hr	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.40	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1						
65	Barium	lb/hr	9.12	7.44	7.44	9	9	9	9	8.5	nd	nd	nd	0.01	0.01	0.01	0.01	0.01						
66	Beryllium	lb/hr	0.3	0.31	0.31	0.48	0.48	0.48	0.48	0.36	0	0	0	0	0	0	0	0						
67	Cadmium	lb/hr	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.05	0	0	0	0	0	0	0	0						
68	Chromium	lb/hr	1.56	1.32	1.32	1.32	1.32	1.32	1.32	1.4	0	0	0	0	0	0	0	0						
69	Lead	lb/hr	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05						
70	Mercury	lb/hr	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						
71	Nickel	lb/hr	1.32	0.95	0.95	1.15	1.15	1.15	1.15	1.10	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01						
72	Silver	lb/hr	0.08	0.08	0.08	0.19	0.19	0.19	0.19	0.1	0	0	0	0	0	0	0	0						
73	Selenium	lb/hr	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15						
74	Thallium	lb/hr	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1						
75																								
76	Stack Gas Flowrate	dscfm	53025	51918	51918	53445	53445	53445	53445	52796	53025	53025	53025	51918	53445	53445	52796	52796						
77	Oxygen	%	9.8	9.2	9.2	9.4	9.4	9.4	9.4	9.6	9.8	9.8	9.8	9.2	9.4	9.4	9.6	9.6						
78																								
79	Estimated Firing Rate	MMBtu/hr																						
80																								
81	Feedrate MTEC Calculations																							
82	Ash	mg/dscm	552143	535242	535242	57963	57963	57963	57963	381783	1935	1935	1935	1912	1848	1848	1898	1898						
83	Chlorine	ug/dscm	30254	29328	29328	28982	28982	28982	28982	29521	1198	1198	1198	1222	1208	1208	1209	1209						
84	Fluoride	ug/dscm	22690810	31527965	31527965	22460741	22460741	22460741	22460741	25559839	8761	8761	8761	12648	12015	12015	11141	11141						
85	Phosphorus	ug/dscm	204217	168638	168638	1599399	1599399	1599399	1599399	177418	1261	1261	1261	1589	1268	1268	1372	1372						
86	Antimony	ug/dscm	2269	2200	2200	2174	2174	2174	2174	2214	630	630	630	611	604	604	615	615						
87	Arsenic	ug/dscm	15127	14664	14664	14491	14491	14491	14491	14761	630	630	630	611	604	604	615	615						
88	Barium	ug/dscm	57483	45459	45459	54341	54341	54341	54341	52428	0	0	0	61	60	60	40	40						
89	Beryllium	ug/dscm	1891	1894	1894	2898	2898	2898	2898	2228	0	0	0	0	0	0	0	0						
90	Cadmium	ug/dscm	315	306	306	362	362	362	362	328	0	0	0	0	0	0	0	0						
91	Chromium	ug/dscm	9833	8065	8065	7970	7970	7970	7970	8623	0	0	0	0	0	0	0	0						
92	Lead	ug/dscm	3025	2933	2933	2898	2898	2898	2898	2952	315	315	315	306	302	302	308	308						
93	Mercury	ug/dscm	63	61	61	60	60	60	60	62	0	0	0	0	0	0	0	0						
94	Nickel	ug/dscm	8320	5805	5805	6944	6944	6944	6944	7023	63	63	63	122	121	121	102	102						
95	Silver	ug/dscm	504	489	489	1147	1147	1147	1147	713	0	0	0	0	0	0	0	0						
96	Selenium	ug/dscm	5295	5132	5132	5072	5072	5072	5072	5166	882	882	882	917	906	906	902	902						
97	Thallium	ug/dscm	15127	14664	14664	14491	14491	14491	14491	14761	630	630	630	611	604	604	615	615						
98	SVM	ug/dscm	3341	3238	3238	3260	3260	3260	3260	3280	315	315	315	306	302	302	308	308						
99	LVM	ug/dscm	26851	24624	24624	25359	25359	25359	25359	25611	630	630	630	611	604	604	615	615						

Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
59												87907.00		87913.00		9906.00		90708.7
60												4.99		5.00		5.00		5.0
61												3601.39		5162.07		3721.99		4161.8
62												32.60		27.86		26.61		30.2
63												0.46		0.46		0.46		0.5
64												2.50		2.50		2.50		2.5
65												9.12		7.45		9.01		8.5
66												0.30		0.31		0.48		0.4
67												0.05		0.05		0.06		0.1
68												1.56		1.32		1.32		1.4
69												0.53		0.53		0.53		0.5
70												0.01		0.01		0.01		0.0
71												1.33		0.97		1.17		1.1
72												0.08		0.08		0.19		0.1
73												0.98		0.99		0.99		1.0
74												2.50		2.50		2.50		2.5
75												53025		51918		53445		52796
76												9.8		9.2		9.4		9.6
77																		
78																		
79																		191.1
80																		
81																		
82	59811	383681										554078		537155		59811		383681
83	30189 100	30731									100	31452 100		30550 100		30189 100		30731
84	22472756	25570980										22699571		31540613		22472756		25570980
85	160667	178790										205478		170227		160667		178790
86	2777 100	2829									100	2899 100		2811 100		2777 100		2829
87	15095 100	15376									100	15758 100		15275 100		15095 100		15376
88	54401	52468										57483		45520		54401		52468
89	2898	2228										1891		1894		2898		2228
90	362 100	328									100	315 100		306 100		362 100		328
91	7970	8623										9833		8065		7970		8623
92	3200 100	3260									100	3341 100		3238 100		3200 100		3260
93	60 100	62									100	63 100		61 100		60 100		62
94	7064 1	7125									1	8383 2		5927 2		7064 1		7125
95	1147 100	713									100	504 100		489 100		1147 100		713
96	5977 100	6068									100	6177 100		6049 100		5977 100		6068
97	15095 100	15376									100	15758 100		15275 100		15095 100		15376
98	3562 100	3587									100	3656 100		3544 100		3562 100		3587
99	25963 59	26226									57	27481 61		25235 58		25963 59		26226

	B	C	D	E	F
1	Process Information				
2					
3	3000C1	Trial burn	Run 1	Run 2	Run 3
4					
5	Kiln Hot End Temp	°F	1336	1301	1357
6	Afterburner Temp	°F	1750	1750	1750
7	Baghouse Pressure Drop	in. w.c.	4.3	2.5	3.4
8	Baghouse Inlet Temp	°F	230	344	345
9			Operator considers this data suspect		
10					
11	3000C2	Trial burn	Run 1	Run 2	Run 3
12					
13	Kiln (1) Hot End Temp	°F	1081	1059	1146
14	Kiln (2) Hot End Temp	°F	1100	1142	1149
15	Kiln (1) Cold End Temp	°F	374	368	369
16	Kiln (2) Cold End Temp	°F	400	400	410
17	Afterburner Temp	°F	1750	1750	1750
18	Baghouse Pressure Drop	in. w.c.	2.9	2.7	2.8
19	Baghouse Inlet Temp	°F	372	363	374
20			Operator considers this data suspect		

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	PCDD/PCDF																
2	N																
3	Facility Name and ID:	Reynolds Metals, Gum Springs, AR															
4	Condition ID:	3000C1															
5	Condition/Test Date:	TB, Nov. 1998															
6																	
7		I-TEF															
8		Wght Fact															
9																	
10		Detected in sample volume (ng)															
11	2,3,7,8-TCDD	1	nd	0.01	0.010	0.005	0.005	nd	0.009	0.009	0.005	0.005	nd	0.005	0.005	0.003	0.003
12	1,2,3,7,8-PCDD	0.5		0.03	0.015	0.030	0.015		0.05	0.025	0.050	0.025		0.02	0.010	0.020	0.010
13	1,2,3,4,7,8-HxCDD	0.1		0.03	0.003	0.030	0.003		0.1	0.010	0.100	0.010		0.05	0.005	0.050	0.005
14	1,2,3,6,7,8-HxCDD	0.1		0.05	0.005	0.050	0.005		0.16	0.016	0.160	0.016		0.07	0.007	0.070	0.007
15	1,2,3,7,8,9-HxCDD	0.1		0.06	0.006	0.060	0.006		0.24	0.024	0.240	0.024		0.11	0.011	0.110	0.011
16	1,2,3,4,6,7,8-HpCDD	0.01		0.46	0.005	0.460	0.005		3.2	0.032	3.200	0.032		1.5	0.015	1.500	0.015
17	OCDD	0.001		1.32	0.001	1.320	0.001		12.3	0.012	12.300	0.012		5.1	0.005	5.100	0.005
18	2,3,7,8-TCDF	0.1		0.05	0.005	0.050	0.005		0.04	0.004	0.040	0.004		0.02	0.002	0.020	0.002
19	1,2,3,7,8-PCDF	0.05		0.18	0.009	0.180	0.009		0.08	0.004	0.080	0.004		0.03	0.002	0.030	0.002
20	2,3,4,7,8-PCDF	0.5		0.12	0.060	0.120	0.060		0.15	0.075	0.150	0.075		0.06	0.030	0.060	0.030
21	1,2,3,4,7,8-HxCDF	0.1		0.74	0.074	0.740	0.074		0.44	0.044	0.440	0.044		0.2	0.020	0.200	0.020
22	1,2,3,6,7,8-HxCDF	0.1		0.26	0.026	0.260	0.026		0.22	0.022	0.220	0.022		0.1	0.010	0.100	0.010
23	2,3,4,6,7,8-HxCDF	0.1		0.15	0.015	0.150	0.015		0.35	0.035	0.350	0.035		0.15	0.015	0.150	0.015
24	1,2,3,7,8,9-HxCDF	0.1		0.04	0.004	0.040	0.004		0.02	0.002	0.020	0.002		0.01	0.001	0.010	0.001
25	1,2,3,4,6,7,8-HpCDF	0.01		1.8	0.018	1.800	0.018		2	0.020	2.000	0.020		0.9	0.009	0.900	0.009
26	1,2,3,4,7,8,9-HpCDF	0.01		0.69	0.007	0.690	0.007		0.36	0.004	0.360	0.004		0.18	0.002	0.180	0.002
27	OCDF	0.001		7.3	0.007	7.300	0.007		2.3	0.002	2.300	0.002		1	0.001	1.000	0.001
28	Total TCDD	0		0.09	0.000	0.090	0.000		0.06	0.000	0.060	0.000		0.02	0.000	0.020	0.000
29	Total PCDD	0		0.16	0.000	0.160	0.000		0.33	0.000	0.330	0.000		0.14	0.000	0.140	0.000
30	Total HxCDD	0		0.4	0.000	0.400	0.000		1.5	0.000	1.500	0.000		0.68	0.000	0.680	0.000
31	Total HpCDD	0		0.77	0.000	0.770	0.000		5.5	0.000	5.500	0.000		2.4	0.000	2.400	0.000
32	Total TCDF	0		0.8	0.000	0.800	0.000		0.89	0.000	0.890	0.000		0.32	0.000	0.320	0.000
33	Total PCDF	0		1.1	0.000	1.100	0.000		1.4	0.000	1.400	0.000		0.48	0.000	0.480	0.000
34	Total HxCDF	0		1.9	0.000	1.900	0.000		1.9	0.000	1.900	0.000		0.81	0.000	0.810	0.000
35	Total HpCDF	0		3.2	0.000	3.200	0.000		3.3	0.000	3.300	0.000		1.5	0.000	1.500	0.000
36																	
37	Gas sample volume (dsf)			130.82	130.82	130.82	130.82		141.54	141.54	141.54	141.54		145.96	145.96	145.96	145.96
38	O2 (%)			10.50	10.50	10.50	10.50		10.9	10.9	10.9	10.9		11.00	11.00	11.00	11.00
39																	
40	PCDD/PCDF (ng in sample)			0.27	0.27	0.27	0.27		0.340	0.340	0.340	0.340		0.15	0.15	0.15	0.15
41	PCDD/PCDF (ng/dscm @ 7% O2)	3.7		0.097	0.097	0.097	0.095	2.6	0.118	0.118	0.118	0.116	3.3	0.051	0.051	0.051	0.050
42																	
43	TEQ Cond Avg	0.09															
44	Total Cond Avg	6.85															

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	PCDD/PCDF																
2	N																
3	Facility Name and ID:	Reynolds Metals, Gum Springs, AR															
4	Condition ID:	3000C2															
5	Condition/Test Date:	TB, Nov. 1998															
6																	
7		I-TEF															
8		Wght Fact															
9																	
10		Detected in sample volume (ng)															
11		2,3,7,8-TCDD	1	nd	0.010	0.005	0.005 nd	0.007	0.007	0.007	0.004	0.004 nd	0.01	0.010	0.005	0.005	
12		1,2,3,7,8-PCDD	0.5		0.030	0.060	0.030 nd	0.006	0.006	0.003	0.003	0.002 nd	0.02	0.010	0.010	0.005	
13		1,2,3,4,7,8-HxCDD	0.1		0.005	0.050	0.005	0.03	0.003	0.003	0.030	0.003 nd	0.02	0.002	0.010	0.001	
14		1,2,3,6,7,8-HxCDD	0.1		0.008	0.080	0.008	0.06	0.006	0.006	0.060	0.006	0.04	0.004	0.040	0.004	
15		1,2,3,7,8,9-HxCDD	0.1		0.013	0.130	0.013	0.07	0.007	0.007	0.070	0.007	0.06	0.006	0.060	0.006	
16		1,2,3,4,6,7,8-HpCDD	0.01		0.006	0.630	0.006	0.72	0.007	0.007	0.720	0.007	0.64	0.006	0.640	0.006	
17		OCDD	0.001		0.001	1.400	0.001	2.5	0.003	0.003	2.500	0.003	1.7	0.002	1.700	0.002	
18		2,3,7,8-TCDF	0.1		0.005	0.050	0.005 nd	0.01	0.001	0.001	0.005	0.001 nd	0.01	0.001	0.005	0.001	
19		1,2,3,7,8-PCDF	0.05		0.007	0.130	0.007	0.03	0.002	0.002	0.030	0.002 nd	0.01	0.001	0.005	0.000	
20		2,3,4,7,8-PCDF	0.5		0.095	0.190	0.095	0.03	0.015	0.015	0.030	0.015	0.04	0.020	0.040	0.020	
21		1,2,3,4,7,8-HxCDF	0.1		0.054	0.540	0.054	0.22	0.022	0.022	0.220	0.022	0.13	0.013	0.130	0.013	
22		1,2,3,6,7,8-HxCDF	0.1		0.032	0.320	0.032	0.1	0.010	0.010	0.100	0.010	0.07	0.007	0.070	0.007	
23		2,3,4,6,7,8-HxCDF	0.1		0.031	0.310	0.031	0.11	0.011	0.011	0.110	0.011	0.08	0.008	0.080	0.008	
24		1,2,3,7,8,9-HxCDF	0.1		0.003	0.030	0.003	0.01	0.001	0.001	0.010	0.001 nd	0.02	0.002	0.010	0.001	
25		1,2,3,4,6,7,8-HpCDF	0.01		0.012	1.200	0.012	0.66	0.007	0.007	0.660	0.007	0.45	0.005	0.450	0.005	
26		1,2,3,4,7,8,9-HpCDF	0.01		0.002	0.200	0.002	0.18	0.002	0.002	0.180	0.002	0.08	0.001	0.080	0.001	
27		OCDF	0.001		0.001	0.760	0.001	0.98	0.001	0.001	0.980	0.001	0.44	0.000	0.440	0.000	
28		Total TCDD	0		0.09	0.090	0.000	0.03	0.000	0.000	0.030	0.000 nd	0.01	0.000	0.005	0.000	
29		Total PCDD	0		0.2	0.200	0.000	0.06	0.000	0.000	0.003	0.000 nd	0.02	0.000	0.010	0.000	
30		Total HxCDD	0		0.81	0.810	0.000	0.43	0.000	0.000	0.430	0.000	0.38	0.000	0.380	0.000	
31		Total HpCDD	0		1.2	1.200	0.000	1.3	0.000	0.000	1.300	0.000	1.1	0.000	1.100	0.000	
32		Total TCDF	0		0.97	0.970	0.000	0.05	0.000	0.000	0.050	0.000 nd	0.01	0.000	0.005	0.000	
33		Total PCDF	0		1.9	1.900	0.000	0.21	0.000	0.000	0.210	0.000	0.04	0.000	0.040	0.000	
34		Total HxCDF	0		2.3	2.300	0.000	0.68	0.000	0.000	0.680	0.000	0.44	0.000	0.440	0.000	
35		Total HpCDF	0		1.9	1.900	0.000	1.1	0.000	0.000	1.100	0.000	0.65	0.000	0.650	0.000	
36																	
37		Gas sample volume (dscf)			131.50	131.50	131.50	130.45	130.45	130.45	130.45	130.45	137.67	137.67	137.67	137.67	
38		O2 (%)			9.10	9.10	9.10	9.1	9.1	9.1	9.1	9.1	9.20	9.20	9.20	9.20	
39																	
40		PCDD/PCDF (ng in sample)			0.31	11.5	0.31	0.107	0.107	0.107	7.3	0.101	0.10	0.10	4.8	0.08	
41		PCDD/PCDF (ng/dscm @ 7% O2)	3.2		0.100	3.65	0.098	10.3	0.034	0.034	2.32	0.032	0.030	1.45	0.026		
42																	
43		TEQ Cond Avg	0.05														
44		Total Cond Avg	2.47														