

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	340
4	EPA ID No.	WVD056866312
5	Facility Name	Bayer Coporation
6	Facility Location	
7	City	New Martinsville
8	State	West Virginia
9	Unit ID Name/No.	FBI
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Fluidized bed
14	Combustor Characteristics	
15		
16	Capacity (MMBtu/hr)	
17	Soot Blowing	
18	APCS Detailed Acronym	ESP/CI/WS
19	APCS General Class	ESP, CI, LEWS
20	APCS Characteristics	Carbon added upstream of wet scrubber, downstream of ESP. 2-stage wet scrubber
21		Carbon used in new demo testing. Not part of regular system
22	Hazardous Wastes	Liq, solid
23	Haz Waste Description	Waste H2O sludge, MCB/MEA/polyol liquids
24	Supplemental Fuel	
25		
26	Stack Characteristics	
27	Diameter (ft)	3.00
28	Height (ft)	36
29	Gas Velocity (ft/sec)	30.0
30	Gas Temperature (°F)	150
31		
32	Permitting Status	
33	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	340C10	
4		
5	Report Name/Date	Investigation of PCDD/PCDF Emissions from the Fluidized Bed Incinerator with and without Carbon Injection, December 1998
6	Report Prepare	ENSR
7	Testing Firm	Bayer Coporation
8	Testing Dates	July 7, 1998
9	Cond Dates	Jul-98
10	Condition Descr	Baseline test
11	Content	PM, CO, PCDD/F
12		
13	340C11	
14		
15	Report Name/Date	Investigation of PCDD/PCDF Emissions from the Fluidized Bed Incinerator with and without Carbon Injection, December 1998
16	Report Prepare	ENSR
17	Testing Firm	Bayer Coporation
18	Testing Dates	July 8, 1998
19	Cond Dates	Jul-98
20	Condition Descr	Carbon injected rate 1
21	Content	PM, CO, PCDD/F
22		
23	340C12	
24		
25	Report Name/Date	Investigation of PCDD/PCDF Emissions from the Fluidized Bed Incinerator with and without Carbon Injection, December 1998
26	Report Prepare	ENSR
27	Testing Firm	Bayer Coporation
28	Testing Dates	July 9, 1998
29	Cond Dates	Jul-98
30	Condition Descr	Carbon injected rate 2
31	Content	PM, CO, PCDD/F
32		
33	340C1	
34		
35	Report Name/Date	Final Trial Burn Report for the Fluidized Bed Incinerator, Miles, Inc., New Martinsville, WV, ENSR Document No. 4690-009-400, September 1992
36	Report Prepare	ENSR
37	Testing Firm	ENSR
38	Cond Descr	Trial burn, MAX LIQUID FEED AND ASH INPUT
39	Testing Dates	May 21, 1992
40	Cond Dates	May-92
41		
42	340C2	
43		
44	Report Name/Date	Final Trial Burn Report for the Fluidized Bed Incinerator, Miles, Inc., New Martinsville, WV, ENSR Document No. 4690-009-400, September 1992
45	Report Prepare	ENSR
46	Testing Firm	ENSR
47	Cond Descr	Trial burn, MAX HEAT INPUT
48	Testing Dates	May 22, 1992
49	Cond Dates	May-92
50		
51	340C50	
52		
53	Report Name/Date	As reported in Investigation of PCDD/PCDF Emissions from the Fluidized Bed Incinerator with and without Carbon Injection, December 1998 (as reported in) possibly also same as above 1992 trial burn
54	Report Prepare	
55	Testing Firm	
56	Cond Descr	Results of PCDD/PCDF testing in 1992
57	Testing Dates	January 1, 1992
58	Cond Dates	1/1/1992

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions 1											
2												
3		Commer Units		7% O2								
4												
5	340C10					R1		R2		R3		Cond Avg
6												
7	PM	E1	gr/dscf	y		0.0013						0.0013
8	CO (RA)	E1	ppmv	y		0.68						0.6800
9												
10	HC (RA)		ppmv	n		0.86						
11	NOx		lb/hr	n		4.9						
12	SO2		lb/hr	n		0.03						
13												
14	Sampling Train	PM, CO		E1								
15	Stack Gas Flowrate		dscfm			7840						7840.0
16	O2		%			8.77						8.8
17	Moisture		%			26.9						26.9
18	Temperature		°F			150						150.0
19												
20	Sampling Train	PCDD/P		E2								
21	Stack Gas Flowrate		dscfm			8206						8206.0
22	O2		%			8.77						8.8
23	Moisture		%			25.7						25.7
24	Temperature		°F			152.4						152.4
25												
26	HC (RA)	E1	ppmv	y								
27	NOx	E1	ppmv	y		233.7						
28	SO2	E1	ppmv	y		1.4						
29												
30	340C11					R1		R2		R3		Cond Avg
31												
32	PM	E1	gr/dscf	y		0.0015		0.0019				0.0017
33	CO (RA)	E1	ppmv	y		7.09		2.64				4.8650
34												
35	HC (RA)		ppmv	n		0.81		0.76				
36	NOx		lb/hr	n		2.8		3.6				
37	SO2		lb/hr	n		0.03		0.03				
38												
39	Sampling Train	PM, CO		E1								
40	Stack Gas Flowrate		dscfm			7361		7450				7405.5
41	O2		%			8.6		8.47				8.5
42	Moisture		%			25.7		25.7				25.7
43	Temperature		°F			150		150				150.0
44												
45	Sampling Train	PCDD/P		E1								
46	Stack Gas Flowrate		dscfm			7608		7780				7694.0
47	O2		%			8.6		8.47				8.5
48	Moisture		%			27.7		27.7				27.7
49	Temperature		°F			153.6		153.6				153.6
50												
51	HC (RA)	E1	ppmv	y		0.91		0.85				0.9
52	NOx	E1	ppmv	y		142.9		177.3				160.1
53	SO2	E1	ppmv	y		1.5		1.5				1.5
54												
55	340C12					R1		R2		R3		Cond Avg
56												
57	PM	E1	gr/dscf	y		0.0024		0.0026				0.0025
58	CO (RA)	E1	ppmv	y		1.51		0.73				1.1200
59												
60	HC (RA)		ppmv	n		0.84		0.86				
61	NOx		lb/hr	n		3.1		3.6				
62	SO2		lb/hr	n		0.03		0.03				
63												
64	Sampling Train	PM, CO		E1								
65	Stack Gas Flowrate		dscfm			7372		7814				7593.0
66	O2		%			8.97		10.17				9.6
67	Moisture		%			25		24.4				24.7
68	Temperature		°F			150		149				149.5
69												
70	Sampling Train	PCDD/P		E2								
71	Stack Gas Flowrate		dscfm			7720		7652				7686.0

	B	C	D	E	F	G	H	I	J	K	L	M
72	O2		%			8.97		10.17				9.6
73	Moisture		%			26.4		25.7				26.1
74	Temperature		°F			153.4		151.6				152.5
75												
76	HC (RA)	E1	ppmv	y		0.98		1.11				1.0
77	NOx	E1	ppmv	y		160.1		194.5				177.3
78	SO2	E1	ppmv	y		1.6		1.6				1.6

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions 2											
2												
3												
4	340C1					R1		R2		R3		Cond Avg
5												
6	PM	E1	gr/dscf	y		0.0088		0.0087		0.0052		0.0076
7	CO (RA)	E1	ppmv	y		81.6		46.4		21.9		50.0
8	HC (RA)	E1	ppmv	y		4.0				0.3		2.2
9	HCl	E1	ppmv	y		9.8		12.5		18.2		13.5
10	Total Chlorine	E1	ppmv	y		9.8		12.5		18.2		13.5
11												
12	Antimony	E2	ug/dscm	y		2.8 nd		6.2		3.0		4.0
13	Arsenic	E2	ug/dscm	y	nd	4.7 nd		5.2 nd		5.0 100		5.0
14	Barium	E2	ug/dscm	y		8.4		6.5		5.9		6.9
15	Beryllium	E2	ug/dscm	y		3.4		0.1		0.1		1.2
16	Cadmium	E2	ug/dscm	y		2.5		1.0		1.1		1.5
17	Chromium	E2	ug/dscm	y		403.7		0.1 nd		0.4		134.7
18	Lead	E2	ug/dscm	y	nd	4.7		4.5		3.0		4.1
19	Mercury	E2	ug/dscm	y		5.6		9.1		7.5		7.4
20	Silver	E2	ug/dscm	y	nd	1.9 nd		2.1 nd		2.0		2.0
21	Thallium	E2	ug/dscm	y	nd	9.3 nd		10.7 nd		10.3		10.1
22	SVM	E2	ug/dscm	y		7.1		5.6		4.1		5.6
23	LVM	E2	ug/dscm	y		411.7		5.4		5.5		140.9
24						1 high outlier run for Cr R1						
25												
26	Sampling Train	Halogens	E1									
27	Stack Gas Flowrate		dscfm			8760.0		8783.0		9555.0		
28	O2		%			7.7		8.8		8.9		
29	Moisture		%			33.6		33.6		31.5		
30	Temperature		°F			162.0		158.0		157.0		
31												
32	Sampling Train	Metals	E2									
33	Stack Gas Flowrate		dscfm			9071.0		9452.0		9913.0		
34	O2		%			7.7		8.8		8.9		
35	Moisture		%			31.4		28.7		28.9		
36	Temperature		°F			160.0		157.0		156.0		
37												
38	Carbon Tetrachloride	DRE	E1			99.9996		99.999		99.999		
39	Chlorobenzene	DRE	E1			99.9958		99.998		99.9987		
40												
41	340C2					R1		R2		R3		Cond Avg
42												
43	PM	E1	gr/dscf	y		0.0046		0.0067		0.0041		0.0051
44	CO (RA)	E1	ppmv	y		12.7		11.2		13.0		12.3
45	HC (RA)	E1	ppmv	y		1.0		1.1		2.3		1.5
46	HCl	E1	ppmv	y		20.9		24.7		17.9		21.2
47	Total Chlorine	E1	ppmv	y		20.9		24.7		17.9		21.2
48	Antimony	E2	ug/dscm	y	nd	5.7 nd		6.2 nd		5.6		5.8
49	Arsenic	E2	ug/dscm	y	nd	4.5 nd		5.2 nd		4.7		4.8
50	Barium	E2	ug/dscm	y		9.7		7.5		155.6		57.6
51	Beryllium	E2	ug/dscm	y		0.2 nd		0.2 nd		0.2		0.2
52	Cadmium	E2	ug/dscm	y		0.9		1.1		0.7		0.9
53	Chromium	E2	ug/dscm	y		0.1		0.6		0.2		0.3
54	Lead	E2	ug/dscm	y		19.0		7.5		10.6		12.4
55	Mercury	E2	ug/dscm	y		10.3		13.1		13.5		12.3
56	Silver	E2	ug/dscm	y	nd	1.8		2.0 nd		1.8		1.9
57	Thallium	E2	ug/dscm	y	nd	9.4 nd		10.5 nd		9.7		9.8
58	SVM	E2	ug/dscm	y		20.0		8.6		11.3		13.3
59	LVM	E2	ug/dscm	y		2.6		3.4		2.7		2.9
60												
61	Sampling Train	Halogens	E1									
62	Stack Gas Flowrate		dscfm			9889.0		9363.0		9166.0		
63	O2		%			8.0		8.6		7.9		
64	Moisture		%			32.1		31.7		31.3		
65	Temperature		°F			162.2		159.8		160.7		
66												
67	Sampling Train	Metals	E2									
68	Stack Gas Flowrate		dscfm			9495.0		9214.0		9739.0		
69	O2		%			8.0		8.6		7.9		
70	Moisture		%			31.4		30.3		30.7		
71	Temperature		°F			161.0		159.0		159.0		

	B	C	D	E	F	G	H	I	J	K	L	M
72												
73	Carbon Tetrachloride	E1	%			99.9991		99.9988		99.9989		
74	Chlorobenzene	E1	%			99.9991		99.9991		99.9981		

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	
1	Feedstreams 1																								
2																									
3																									
4	340C10	Trial burn			Cond Avg		Cond Avg		Cond Avg		Cond Avg		Cond Avg		Cond Avg		Cond Avg		Cond Avg		Cond Avg		Cond Avg		
5																									
6	Feedstream Number				F1		F2		F3		F4		F5		F6		F7								
7	Feed Class				Solid HW		Sludge HW		Liq HW		Liq HW		Liq HW		Liq HW		Total								
8	Feed Class 2																HW							Total	
9	Feedstream Description				Solid Organic		Wastewater Sludge		MCB		MEA		Polyol		Total Liq-B		Total							Total	
10	Feed Rate	lb/hr			1377		3818		150		0.00		172		288		5805.00								
11	Heating Value	Btu/lb																							
12	Chlorine	%wt			1.7		0.3		31.5																
13	Ash	lb/hr			16.5		155.0																	171.50	
14																									
15	Stack Gas Flowrate	dscfm			7840.0		7840.0		7840.0		7840.0		7840.0		7840.0		7840.0							7840.0	
16	Oxygen	%			8.8		8.8		8.8		8.8		8.8		8.8		8.8							8.8	
17																									
18	Thermal Feedrate	MMBtu/hr																							
19	Estimated Firing Rate	MMBtu/hr																						30.4	
20																									
21	<i>Feedrate MTEC Calculations</i>																								
22	Chlorine	ug/dscm			913874		402442		1844614								3160931						3160931		
23	Ash	mg/dscm			644		6051										6695						6695		
24																									
25																									
26																									
27	340C11	Trial burn			R1		R2		Cond Avg		R1		R2		Cond Avg								R1	R2	Cond Avg
28																									
29	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3		F3		
30	Feed Class				Solid HW		Solid HW		Solid HW		Sludge HW		Sludge HW		Sludge HW		Liq HW		Liq HW		Liq HW		Liq HW		
31	Feed Class 2																								
32	Feedstream Description				Solid Organic		Solid Organic		Solid Organic		Wastewater Sludge		Wastewater Sludge		Wastewater Sludge		MCB		MCB		MCB		MCB		
33	Feed Rate	lb/hr			1203		1200		1201.5		3968		3905		3937		173		170		172		172		
34	Heating Value	Btu/lb																							
35	Chlorine	%wt			1.7		1.7				0.27		0.3				31.5		31.5						
36	Ash	lb/hr			14		14				161		159												
37																									
38	Stack Gas Flowrate	dscfm			7361.0		7450		7405.5		7361.0		7450		7405.5		7361.0		7450		7405.5		7361.0		
39	Oxygen	%			8.6		8.47		8.535		8.6		8.47		8.535		8.6		8.47		8.535		8.6		
40																									
41	Thermal Feedrate	MMBtu/hr																							
42	Estimated Firing Rate	MMBtu/hr																							
43																									
44	<i>Feedrate MTEC Calculations</i>																								
45	Chlorine	ug/dscm			838692		818030		828361		439363		422789		431076		2234829		2147328		2191079				
46	Ash	mg/dscm			591		577		584		6603		6376		6489										
47																									
48																									
49																									
50	340C12	Trial burn			R1		R2		Cond Avg		R1		R2		Cond Avg								R1	R2	Cond Avg
51																									
52	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3		F3		
53	Feed Class				Solid HW		Solid HW		Solid HW		Sludge HW		Sludge HW		Sludge HW		Liq HW		Liq HW		Liq HW		Liq HW		
54	Feed Class 2																								
55	Feedstream Description				Solid Organic		Solid Organic		Solid Organic		Wastewater Sludge		Wastewater Sludge		Wastewater Sludge		MCB		MCB		MCB		MCB		
56	Feed Rate	lb/hr			1236		1256		1246		3734		3726		3730		204		0		102		102		
57	Heating Value	Btu/lb																							
58	Chlorine	%wt			1.7		1.7				0.27		0.3				31.5		31.5						
59	Ash	lb/hr			15		15				152		151												
60																									

	B	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AV	AW	AX	AY	AZ	B
1	Feedstreams 1																											
2																												
3																												
4	340C10																											
5																												
6	Feedstream Number																											
7	Feed Class																											
8	Feed Class 2																											
9	Feedstream Description																											
10	Feed Rate																											
11	Heating Value																											
12	Chlorine																											
13	Ash																											
14																												
15	Stack Gas Flowrate																											
16	Oxygen																											
17																												
18	Thermal Feedrate																											
19	Estimated Firing Rate																											
20																												
21	<i>Feedrate MTEC Calculation</i>																											
22	Chlorine																											
23	Ash																											
24																												
25																												
26																												
27	340C11																											
28	R1	R2	Cond Avg	R1	R2	Cond Avg	R1	R2	Cond Avg	R1	R2	Cond Avg	R1	R2														
29	Feedstream Number	F4	F4	F4	F5	F5	F5	F6	F6	F6	F7	F7	F7	F8	F8													
30	Feed Class	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Total	Total													
31	Feed Class 2													Total	Total													
32	Feedstream Description	MEA	MEA	MEA	Polyol	Polyol	Polyol	Total Liq-B	Total Liq-B	Total Liq-B	PAC	PAC	PAC	Total	Total													
33	Feed Rate	0	0		165	183	174	346	351	349	7	7	7	5862	5816													
34	Heating Value																											
35	Chlorine																											
36	Ash										7	6.5	7															
37																												
38	Stack Gas Flowrate	7361.0	7450	7405.5	7361.0	7450	7405.5	7361.0	7450	7405.5	7361.0	7450	7405.5	7361.0	7450													
39	Oxygen	8.6	8.47	8.535	8.6	8.47	8.535	8.6	8.47	8.535	8.6	8.47	8.535	8.6	8.47													
40																												
41	Thermal Feedrate																											
42	Estimated Firing Rate																											
43																												
44	<i>Feedrate MTEC Calculation</i>																											
45	Chlorine															3512883	3388146											
46	Ash										287	261	274	7480	7214													
47																												
48																												
49																												
50	340C12																											
51	R1	R2	Cond Avg	R1	R2	Cond Avg	R1	R2	Cond Avg	R1	R2	Cond Avg	R1	R2														
52	Feedstream Number	F4	F4	F4	F5	F5	F5	F6	F6	F6	F7	F7	F7	F8	F8													
53	Feed Class	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Total	Total													
54	Feed Class 2													Total	Total													
55	Feedstream Description	MEA	MEA	MEA	Polyol	Polyol	Polyol	Total Liq-B	Total Liq-B	Total Liq-B	PAC	PAC	PAC	Total	Total													
56	Feed Rate	0	202	101	175	175	175	330	310	320	19.8	19.8	20	5699	5689													
57	Heating Value																											
58	Chlorine		8																									
59	Ash										19.8	19.8	20															
60																												

	B	BB	BC	BD	BE	BF	BG	BH	
1	Feedstreams 1								
2									
3									
4	340C10								
5									
6	Feedstream Number								
7	Feed Class								
8	Feed Class 2								
9	Feedstream Description								
10	Feed Rate								
11	Heating Value								
12	Chlorine								
13	Ash								
14									
15	Stack Gas Flowrate								
16	Oxygen								
17									
18	Thermal Feedrate								
19	Estimated Firing Rate								
20									
21	<i>Feedrate MTEC Calculation</i>								
22	Chlorine								
23	Ash								
24									
25									
26									
27	340C11	Cond Avg		R1		R2		Cond Avg	
28									
29	Feedstream Number	F8							
30	Feed Class	Total							
31	Feed Class 2	Total		HW		HW		HW	
32	Feedstream Description	Total							
33	Feed Rate	5839							
34	Heating Value								
35	Chlorine								
36	Ash								
37									
38	Stack Gas Flowrate	7405.5							
39	Oxygen	8.535							
40									
41	Thermal Feedrate								
42	Estimated Firing Rate	29.3							
43									
44	<i>Feedrate MTEC Calculation</i>								
45	Chlorine	3450515		3512883		3388146		3450515	
46	Ash	7347		7480		7214		7347	
47									
48									
49									
50	340C12	Cond Avg		R1		R2		Cond Avg	
51									
52	Feedstream Number	F8							
53	Feed Class	Total							
54	Feed Class 2	Total		HW		HW		HW	
55	Feedstream Description	Total							
56	Feed Rate	5694							
57	Heating Value								
58	Chlorine								
59	Ash								
60									

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
61	Stack Gas Flowrate		dscfm		7372.0		7814		7593		7372.0		7814		7593				7372.0		7814		7593	
62	Oxygen		%		9.0		10.17		9.57		9.0		10.17		9.57				9.0		10.17		9.57	
63																								
64	Thermal Feedrate		MMBtu/hr																					
65	Estimated Firing Rate		MMBtu/hr																					
66																								
67	<i>Feedrate MTEC Calculations</i>																							
68	Chlorine		ug/dscm		888200.8		990603.9		939402.3		426169.0		466732.5		446450.8				2716342.2		0.0		1358171.1	
69	Ash		mg/dscm		606.9		612.8		609.9		6233.5		6128.2		6180.9									

	B	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	B
61	Stack Gas Flowrate	7372.0		7814		7593		7372.0		7814		7593		7372.0		7814		7593		7372.0		7814		7593					
62	Oxygen	9.0		10.17		9.57		9.0		10.17		9.57		9.0		10.17		9.57		9.0		10.17		9.57					
63																													
64	Thermal Feedrate																												
65	Estimated Firing Rate																												
66																													
67	<i>Feedrate MTEC Calculation</i>																												
68	Chlorine			749726.4		749726.4																				4030712		2207063	
69	Ash																				812.0		803.6		807.8		7652		7545

	B	BB	BC	BD	BE	BF	BG	BH
61	Stack Gas Flowrate							
62	Oxygen							
63								
64	Thermal Feedrate							
65	Estimated Firing Rate							
66								
67	<i>Feedrate MTEC Calculation</i>							
68	Chlorine	3493751		4030712		2207063		3493751
69	Ash	7599		7652		7545		7599

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	Feedstreams 2																					
2																						
3																						
4	340C1		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		Liq HW		Liq HW		Liq HW		Sludge HW		Sludge HW		Sludge HW		Liq HW		Liq HW		Liq HW			
8	Feed Class 2																					
9	Feedstream Description		TDI Residue		TDI Residue		TDI Residue		Waste water sluc		Waste water sludge		Waste water sludge		Mixed organic liq		Mixed organic liq		Mixed organic liq			
10	Feedrate	lb/hr	2097		2268		2208		967		695		543		341.7		264.8		358			
11	Feedrate wet	lb/hr							4115		4017		3961									
12	Heating value	Btu/lb	10347		10489		10578		1909		2029		1748		11930		12171		11025			
13	Ash	wt %	0.42		0.3		1.25		73.81		71.64		68.33		0.08		0.07		0.33			
14	Chlorine	ppmw	14800		14400		13200		12900		15700		17500		114000		89300		199000			
15	Antimony	ppmw	1	3.5	1	3.3	1	3.3	1	27	1	30	1	32	1	3	1	3	1	2.9		
16	Arsenic	ppmw	1	2.9	1	2.8	1	2.8	1	50	1	41	1	54	1	2.5	1	2.5	1	2.4		
17	Barium	ppmw	1	1.15	1	0.841	1	9.26	1	226	1	220	1	194	1	0.099	1	0.099	1	0.0981		
18	Beryllium	ppmw	1	1.55	1	0.785	1	4.24	1	81.7	1	89.9	1	76.8	1	0.099	1	0.099	1	0.098		
19	Cadmium	ppmw	1	0.172	1	0.168	1	0.441	1	0.212	1	0.257	1	0.18	1	0.149	1	0.148	1	0.147		
20	Chromium	ppmw	1	18.2	1	12.1	1	17.7	1	143	1	138	1	140	1	2.92	1	2.67	1	0.196		
21	Lead	ppmw	1	2.9	1	2.8	1	2.8	1	50	1	35	1	42	1	2.5	1	2.5	1	2.4		
22	Mercury	ppmw	1	0.055	1	0.055	1	0.046	1	0.62	1	0.65	1	0.7	1	18.2	1	7.14	1	1.67		
23	Silver	ppmw	1	1.2	1	1.1	1	1.1	1	8.8	1	9.9	1	11	1	0.99	1	0.99	1	0.98		
24	Thallium	ppmw	1	5.7	1	5.6	1	5.5	1	30	1	50	1	40	1	5	1	0.49	1	4.9		
25	Chlorine	lb/hr																				
26	Ash	lb/hr																				
27																						
28	Stack Gas Flowrate	dscfm	8760		8783		9555		8760		8783		9555		8760		8783		9555			
29	Oxygen	%	7.73		8.83		8.92		7.73		8.83		8.92		7.73		8.83		8.92			
30																						
31	<i>Feedrate MTEC Calculations</i>																					
32	Antimony	ug/dscm	100	236.3	100	262.1	100	236.3	100	840.7	100	730.2	100	563.5	100	33.0	100	27.8	100	33.7	100	
33	Arsenic	ug/dscm	100	195.8	100	222.4	100	200.5	100	1556.9	100	997.9	100	950.9	100	27.5	100	23.2	100	27.9	13	
34	Barium	ug/dscm	100	77.7	100	66.8	100	663.1	100	7037.3	100	5354.5	100	3416.3	100	1.1	100	0.9	100	1.1	1	
35	Beryllium	ug/dscm	100	104.7	100	62.3	100	303.6	100	2544.0	100	2188.0	100	1352.4	100	1.1	100	0.9	100	1.1	0	
36	Cadmium	ug/dscm	100	11.6	100	13.3	100	31.6	100	6.6	100	6.3	100	3.2	100	1.6	100	1.4	100	1.7	67	
37	Chromium	ug/dscm	100	1229.0	100	961.0	100	1267.4	100	4452.8	100	3358.7	100	2465.3	100	32.1	100	24.8	100	2.3	0	
38	Lead	ug/dscm	100	195.8	100	222.4	100	200.5	100	1556.9	100	851.9	100	739.6	100	27.5	100	23.2	100	27.9	13	
39	Mercury	ug/dscm	100	3.7	100	4.4	100	3.3	100	19.3	100	15.8	100	12.3	100	200.3	100	66.2	100	19.4	168	
40	Silver	ug/dscm	100	81.0	100	87.4	100	78.8	100	274.0	100	241.0	100	193.7	100	10.9	100	9.2	100	11.4	100	
41	Thallium	ug/dscm	100	384.9	100	444.8	100	393.8	100	934.2	100	1216.9	100	704.4	100	55.0	100	4.5	100	56.9	100	
42	SVM	ug/dscm	100	207.4	100	117.9	86	232.1	100	1563.5	100	858.1	100	742.8	100	29.1	100	12.3	100	14.8	13	
43	LVM	ug/dscm	13	1529.5	20	1134.6	11	1771.5	11	8553.7	11	6544.7	11	4768.7	47.1	60.7	65.5	36.8	100	16.8	2	
44	Ash	mg/dscm	100	103.7	100	117.9	100	116.0	100	1563.5	100	858.1	100	742.8	100	14.6	100	12.3	100	14.8	100	
45	Chlorine	ug/dscm	100	1431.5	100	1134.6	100	1671.3	100	8553.7	100	6544.7	100	4768.7	100	46.4	100	36.8	100	15.6	100	
46																						
47	340C2		R1		R2		R3		R1		R2		R3		R1		R2		R3			
48	Feedstream Number		F1		F1		F1		F2		F2		F2		F3		F3		F3			
49	Feed Class		Liq HW		Liq HW		Liq HW		Sludge HW		Sludge HW		Sludge HW		Liq HW		Liq HW		Liq HW			
50	Feed Class 2																					
51	Feedstream Description		TDI Residue		TDI Residue		TDI Residue		Waste water sludge		Waste water sludge		Waste water sludge		Mixed organic liquids		Mixed organic liquids		Mixed organic liquids			
52	Feedrate	lb/hr	2404		2187		2513		764		767		887		250		239.3		173.3			
53	Feedrate wet	lb/hr							3800		3975		3943									
54	Heating value	Btu/lb	10720		10469		10991		2358		1865		1825		11426		13337		14798			
55	Ash	wt %	0.31		0.29		0.29		68.33		74.24		74.5		0.1		0.17		0.07			
56	Chlorine	ppmw	10500		10700		13100		16900		11900		12600		133000		18400		5100			
57	Antimony	ppmw	1	3.3	1	3.3	1	3.2	1	32	1	26	1	30	1	2.9	1	2.7	1	3		
58	Arsenic	ppmw	1	2.7	1	2.7	1	2.7	1	13	1	43	1	40	1	2.5	1	2.2	1	2.5		
59	Barium	ppmw	1	0.657	1	0.65	1	1.64	1	92.1	1	164	1	210	1	0.098	1	0.09	1	0.098		
60	Beryllium	ppmw	1	0.383	1	0.325	1	0.438	1	38	1	66.9	1	76.8	1	0.098	1	0.09	1	0.098		

	B	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
1	Feedstreams 2														
2															
3															
4	340C1	R1		R2		R3		R1		R2		R3		Cond Avg	
5															
6	Feedstream Number							F4		F4		F4		F4	
7	Feed Class							Total		Total		Total		Total	
8	Feed Class 2	HW		HW		HW		Total		Total		Total		Total	
9	Feedstream Description							Total		Total		Total		Total	
10	Feedrate														
11	Feedrate wet														
12	Heating value														
13	Ash														
14	Chlorine														
15	Antimony														
16	Arsenic														
17	Barium														
18	Beryllium														
19	Cadmium														
20	Chromium														
21	Lead														
22	Mercury														
23	Silver														
24	Thallium														
25	Chlorine							94.6		77.5		123.5			
26	Ash							722.9		504.9		447.3			
27															
28	Stack Gas Flowrate							8760		8783		9555			
29	Oxygen							7.73		8.83		8.92			
30															
31	<i>Feedrate MTEC Calculations</i>														
32	Antimony	1110.1	100	1020.1	100	833.5	100	1110.1	100	1020.1	100	833.5	100	987.9	
33	Arsenic	1780.3	20	1243.5	19	1179.3	13	1780.3	19.4	1243.5	19	1179.3	16	1401.0	
34	Barium	7116.0	1	5422.2	0	4080.5	1	7116.0	0.03	5422.2	0	4080.5	0.5	5539.6	
35	Beryllium	2649.8	0	2251.3	0	1657.2	0	2649.8	0.07	2251.3	0.1	1657.2	0.1	2186.1	
36	Cadmium	19.9	70	21.0	5	36.5	67	19.9	4.68	21.0	4.7	36.5	21	25.8	
37	Chromium	5713.9	0	4344.5	0	3735.0	0	5713.9	0.06	4344.5	0.1	3735.0		4597.8	
38	Lead	1780.3	22	1097.4	24	968.0	13	1780.3	23.6	1097.4	24	968.0	18	1281.9	
39	Mercury	121.3	138	51.1	96	23.7		121.3		51.1		23.7	0	65.4	
40	Silver	365.9	100	337.5	100	283.8	100	365.9	100	337.5	100	283.8	100	329.1	
41	Thallium	1374.1	73	1666.3	100	1155.1	100	1374.1	100	1666.3	100	1155.1	100	1398.5	
42	SVM	1800.1	13	988.3	22	989.6	13	1800.1	21.8	988.3	22	989.6	18	1259.3	
43	LVM	10143.9	3	7716.1	3	6557.0	2	10143.9	3.31	7716.1	3.3	6557.0	2.9	8139.0	
44	Ash	23278.2		17681.5		14506.0		23278.2		17681.5		14506.0		18488.6	
45	Chlorine	3046227.3		2714028.8		4005120.0		3046227.3		2714028.8		4005120.0		3255125.4 use this one	
46															
47	340C2	R1		R2		R3		R1		R2		R3		Cond Avg	
48	Feedstream Number							F4		F4		F4		F4	
49	Feed Class							Total		Total		Total		Total	
50	Feed Class 2	HW		HW		HW		Total		Total		Total		Total	
51	Feedstream Description							Total		Total		Total		Total	
52	Feedrate														
53	Feedrate wet														
54	Heating value														
55	Ash														
56	Chlorine														
57	Antimony														
58	Arsenic														
59	Barium														
60	Beryllium														

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
61	Cadmium		ppmw	1	0.164	1	0.162	1	0.164	1	0.135	1	0.149		0.163	1	0.147	1	0.135	1	0.148	
62	Chromium		ppmw		13.5		12.9		13.3		57.3		100		128	1	0.197	1	0.18	1	0.197	
63	Lead		ppmw	1	2.7	1	2.7	1	2.7		23		27		38	1	2.5	1	2.2	1	2.5	
64	Mercury		ppmw	1	0.045	1	0.049	1	0.045		0.72		0.67		0.64	1	1.67	1	16.7	1	2	
65	Silver		ppmw	1	1.1	1	1.1	1	1.1	1	11	1	8.8	1	1	1	0.98	1	0.9	1	0.98	
66	Thallium		ppmw	1	5.5	1	5.4	1	5.5	1	50	1	50	1	40	1	4.9	1	4.5	1	4.9	
67	Ash		lb/hr																			
68	Chlorine		lb/hr																			
69																						
70	Stack Gas Flowrate		dscfm		9889		9363		9166		9889		9363		9166		9889		9363		9166	
71	Oxygen		%		7.97		8.6		7.93		7.97		8.6		7.93		7.97		8.6		7.93	
72																						
73	<i>Feedrate MTEC Calculations</i>																					
74	Antimony		ug/dscm	100	230.5	100	232.7	100	251.3	100	710.2	100	643.0	100	831.4	100	21.1	100	20.8	100	16.2	100
75	Arsenic		ug/dscm	100	188.6	100	190.4	100	212.0		288.5		1063.3		1108.6	100	18.2	100	17.0	100	13.5	42
76	Barium		ug/dscm		45.9		45.8		128.8		2044.1		4055.5		5820.1	100	0.7	100	0.7	100	0.5	
77	Beryllium		ug/dscm		26.7		22.9		34.4		843.4		1654.4		2128.5	100	0.7	100	0.7	100	0.5	
78	Cadmium		ug/dscm	100	11.5	100	11.4	100	12.9	100	3.0	100	3.7		4.5	100	1.1	100	1.0	100	0.8	100
79	Chromium		ug/dscm		942.8		909.6		1044.3		1271.7		2472.9		3547.5	100	1.4	100	1.4	100	1.1	
80	Lead		ug/dscm	100	188.6	100	190.4	100	212.0		510.5		667.7		1053.2	100	18.2	100	17.0	100	13.5	29
81	Mercury		ug/dscm	100	3.1	100	3.5	100	3.5		16.0		16.6		17.7	100	12.1	100	128.8	100	10.8	49
82	Silver		ug/dscm	100	76.8	100	77.6	100	86.4	100	244.1	100	217.6	100	27.7	100	7.1	100	6.9	100	5.3	100
83	Thallium		ug/dscm	100	384.1	100	380.8	100	431.9	100	1109.7	100	1236.4	100	1108.6	100	35.6	100	34.7	100	26.5	100
84	SVM		ug/dscm	100	200.0	100	201.8	100	224.9	1.5	513.5	1.8	671.4		1057.7	100	9.6	100	9.0	100	7.2	30
85	LVM		ug/dscm	16	1158.1	17	1122.9	16	1290.7		2403.6		5190.6		6784.6	100	10.1	100	9.5	100	7.6	6
86	Ash		mg/dscm																			
87	Chlorine		ug/dscm																			

	B	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
61	Cadmium														
62	Chromium														
63	Lead														
64	Mercury														
65	Silver														
66	Thallium														
67	Ash							529.6		576.3		668.3			
68	Chlorine							131.5		104.6		105.7			
69															
70	Stack Gas Flowrate							9889		9363		9166			
71	Oxygen							7.97		8.6		7.93			
72															
73	<i>Feedrate MTEC Calculations</i>														
74	Antimony	961.7	100	896.5	100	1099.0	100	961.7	100	896.5	100	1099.0	100	985.7	
75	Arsenic	495.2	16	1270.7	17	1334.1	42	495.2	16.3	1270.7	17	1334.1	21	1033.4	
76	Barium	2090.7		4102.1		5949.4		2090.7		4102.1		5949.4		4047.4	
77	Beryllium	870.8		1678.0		2163.4		870.8		1678.0		2163.4		1570.8	
78	Cadmium	15.5	100	16.1	75	18.2	100	15.5	100	16.1	75	18.2	91	16.6	
79	Chromium	2216.0		3383.9		4592.9		2216.0		3383.9		4592.9		3397.6	
80	Lead	717.2	24	875.0	18	1278.7	29	717.2	23.7	875.0	18	1278.7	22	957.0	
81	Mercury	31.3	89	148.9	45	32.1	49	31.3	88.9	148.9	45	32.1	76	70.7	
82	Silver	328.1	100	302.1	100	119.4	100	328.1	100	302.1	100	119.4	100	249.9	
83	Thallium	1529.4	100	1651.9	100	1567.0	100	1529.4	100	1651.9	100	1567.0	100	1582.8	
84	SVM	723.1	25	882.2	18	1289.7	30	723.1	25.3	882.2	18	1289.7	23	965.0	
85	LVM	3571.9	3	6323.0	3	8082.9	5.6	3571.9	3.16	6323.0	2.7	8082.9	3.4	5992.6	
86	Ash	15385.0		18580.5		20881.5		15385.0		18580.5		20881.5		18282.4	use this one
87	Chlorine	3820103.8		3372416.3		3302674.3		3820103.8		3372416.3		3302674.3		3498398.1	use this one

	B	C	D	E	F	G
1	Process Information					
2				R1	R2	R3
3	340C10					
4						
5	Freeboard Temperature	F		1782.68		
6	Stack Gas Velocity	acfm		1831		
7	Comb Air	scfm		4380		
8						
9	340C11					
10						
11	Freeboard Temperature	F		1724.8	1733.8	
12	Stack Gas Velocity	acfm		1733	1775	
13	Comb Air	scfm		4390	4320	
14						
15	340C12					
16						
17	Freeboard Temperature	F		1723	1708.6	
18	Stack Gas Velocity	acfm		1749	1713	
19	Comb Air	scfm		4620	4650	

	C	D	E	F	G
1	Process Information 2				
2					
3	340C1				
4					
5	Fluid Bed Temperature	F	1673	1678	1680
6	ESP Temperature	F	436	440	441
7					
8	340C2				
9					
10	Fluid Bed Temperature	F	1661	1662	1682
11	ESP Temperature	F	452	446	449

A	B	C	D	E	F	G	H	I
1	PCDD/PCDF							
2	N							
3	Facility Name and ID:	Bayer, New Martinsville, WV						
4	Condition ID:	340C10						
5	Condition/Test Date:	Baseline test						
6								
7		I-TEF			Run 1			1 run only
8		Wght Fact		Total	TEQ	Total	TEQ	
9				Full ND	Full ND	1/2 ND	1/2 ND	
10	Detected in sample volume (pg)							
11	2,3,7,8-TCDD	1		240	240.00	240.00	240.00	
12	Total TCDD	0		4100	0	4100	0	
13	1,2,3,7,8-PCDD	0.5		990	495.00	990.00	495.00	
14	Total PCDD	0		8200	0	8200	0	
15	1,2,3,4,7,8-HxCDD	0.1		620	62.00	620.00	62.00	
16	1,2,3,6,7,8-HxCDD	0.1		1100	110.00	1100.00	110.00	
17	1,2,3,7,8,9-HxCDD	0.1		720	72.00	720.00	72.00	
18	Total HxCDD	0		10000	0	10000	0	
19	1,2,3,4,6,7,8-HpCDD	0.01		3200	32.00	3200.00	32.00	
20	Total HpCDD	0		6800	0	6800	0	
21	OCDD	0.001		10000	10.00	10000.00	10.00	
22	2,3,7,8-TCDF	0.1		1900	190.00	1900.00	190.00	
23	Total TCDF	0		100000	0	100000	0	
24	1,2,3,7,8-PCDF	0.05		6300	315	6300	315	
25	2,3,4,7,8-PCDF	0.5		7900	3950	7900	3950	
26	Total PCDF	0		130000	0	130000	0	
27	1,2,3,4,7,8-HxCDF	0.1		12000	1200	12000	1200	
28	1,2,3,6,7,8-HxCDF	0.1		14000	1400	14000	1400	
29	2,3,4,6,7,8-HxCDF	0.1		14000	1400	14000	1400	
30	1,2,3,7,8,9-HxCDF	0.1		3400	340	3400	340	
31	Total HxCDF	0		140000	0	140000	0	
32	1,2,3,4,6,7,8-HpCDF	0.01		63000	630	63000	630	
33	1,2,3,4,7,8,9-HpCDF	0.01		4600	46	4600	46	
34	Total HpCDF	0		95000	0	95000	0	
35	OCDF	0.001		31000	31	31000	31	
36								
37	Gas sample volume (dscf)				115.369	115.369	115.369	
38	O2 (%)				8.77	8.77	8.77	
39								
40	PCDD/PCDF (ng in sample)				10.523	535.1	10.523	
41	PCDD/PCDF (ng/dscm @ 7% O2)	0.0			3.689	187.612	3.689	
42								
43	TEQ Cond Avg	3.6895						
44	Total Cond Avg	187.6						

	A	B	C	D	E	F	G	H	I	J	K	L	M
1		PCDD/PCDF											
2		N											
3		Facility Name and ID:	Bayer, New Martinsville, WV										
4		Condition ID:	340C11										
5		Condition/Test Date:	Carbon injected rate 1										
6													
7		I-TEF				Run 1				Run 2			
8		Wght Fact				Total	TEQ	Total	TEQ	Total	TEQ	Total	TEQ
9						Full ND	Full ND	1/2 ND	1/2 ND	Full ND	Full ND	1/2 ND	1/2 ND
10		Detected in sample volume (pg)											
11		2,3,7,8-TCDD	1			32	32.00	32.00	32.00	45	45.00	45.00	45.00
12		Total TCDD	0			500	0	500	0	670	0.00	670	0.00
13		1,2,3,7,8-PCDD	0.5			120	60.00	120.00	60.00	180	90.00	180.00	90.00
14		Total PCDD	0			1000	0	1000	0	1500	0.00	1500	0.00
15		1,2,3,4,7,8-HxCDD	0.1			87	8.70	87.00	8.70	130	13.00	130.00	13.00
16		1,2,3,6,7,8-HxCDD	0.1			150	15.00	150.00	15.00	200	20.00	200.00	20.00
17		1,2,3,7,8,9-HxCDD	0.1			110	11.00	110.00	11.00	150	15.00	150.00	15.00
18		Total HxCDD	0			1600	0	1600	0	2100	0.00	2100	0.00
19		1,2,3,4,6,7,8-HpCDD	0.01			510	5.10	510.00	5.10	680	6.80	680.00	6.80
20		Total HpCDD	0			1000	0	1000	0	1400	0.00	1400	0.00
21		OCDD	0.001			1800	1.80	1800.00	1.80	2500	2.50	2500	2.50
22		2,3,7,8-TCDF	0.1			290	29.00	290.00	29.00	350	35.00	350	35.00
23		Total TCDF	0			13000	0	13000	0	17000	0.00	17000	0.00
24		1,2,3,7,8-PCDF	0.05			880	44	880	44	1200	60.00	1200	60.00
25		2,3,4,7,8-PCDF	0.5			1200	600	1200	600	1500	750.00	1500	750.00
26		Total PCDF	0			17000	0	17000	0	24000	0.00	24000	0.00
27		1,2,3,4,7,8-HxCDF	0.1			1700	170	1700	170	2400	240.00	2400	240.00
28		1,2,3,6,7,8-HxCDF	0.1			1900	190	1900	190	2700	270.00	2700	270.00
29		2,3,4,6,7,8-HxCDF	0.1			2200	220	2200	220	2400	240.00	2400	240.00
30		1,2,3,7,8,9-HxCDF	0.1			480	48	480	48	580	58.00	580	58.00
31		Total HxCDF	0			18000	0	18000	0	25000	0.00	25000	0.00
32		1,2,3,4,6,7,8-HpCDF	0.01			8000	80	8000	80	11000	110.00	11000	110.00
33		1,2,3,4,7,8,9-HpCDF	0.01			690	7	690	7	830	8.30	830	8.30
34		Total HpCDF	0			12000	0	12000	0	17000	0.00	17000	0.00
35		OCDF	0.001			3900	4	3900	4	4800	4.80	4800	4.80
36													
37		Gas sample volume (dscf)					108.819	108.819	108.819		115.312	115.312	115.312
38		O2 (%)					8.6	8.6	8.6		8.47	8.47	8.47
39													
40		PCDD/PCDF (ng in sample)					1.525	69.8	1.525		1.968	96.0	1.968
41		PCDD/PCDF (ng/dscm @ 7% O2)	0.0				0.559	25.590	0.559		0.674	32.859	0.674
42													
43		TEQ Cond Avg	0.6166										
44		Total Cond Avg	29.2244										

A	B	C	D	E	F	G	H	I	J	K	L	M
1	PCDD/PCDF											
2	N											
3	Facility Name and ID:	Bayer, New Martinsville, WV										
4	Condition ID:	340C12										
5	Condition/Test Date:	Carbon injected rate 2										
6												
7		I-TEF	Run 1				Run 2					
8		Wght Fact	Total	TEQ	Total	TEQ	Total	TEQ	Total	TEQ		
9			Full ND	Full ND	1/2 ND	1/2 ND	Full ND	Full ND	1/2 ND	1/2 ND		
10	Detected in sample volume (pg)											
11	2,3,7,8-TCDD	1	31	31.00	31.00	31.00	11	11.00	11.00	11.00		
12	Total TCDD	0	510	0	510	0	210	0.00	210	0.00		
13	1,2,3,7,8-PCDD	0.5	120	60.00	120.00	60.00	36	18.00	36.00	18.00		
14	Total PCDD	0	1100	0	1100	0	400	0.00	400	0.00		
15	1,2,3,4,7,8-HxCDD	0.1	95	9.50	95.00	9.50	35	3.50	35.00	3.50		
16	1,2,3,6,7,8-HxCDD	0.1	140	14.00	140.00	14.00	70	7.00	70.00	7.00		
17	1,2,3,7,8,9-HxCDD	0.1	73	7.30	73.00	7.30	47	4.70	47.00	4.70		
18	Total HxCDD	0	1500	0	1500	0	710	0.00	710	0.00		
19	1,2,3,4,6,7,8-HpCDD	0.01	370	3.70	370.00	3.70	240	2.40	240.00	2.40		
20	Total HpCDD	0	810	0	810	0	470	0.00	470	0.00		
21	OCDD	0.001	800	0.80	800.00	0.80	700	0.70	700	0.70		
22	2,3,7,8-TCDF	0.1	290	29.00	290.00	29.00	150	15.00	150	15.00		
23	Total TCDF	0	12000	0	12000	0	5800	0.00	5800	0.00		
24	1,2,3,7,8-PCDF	0.05	830	42	830	42	310	15.50	310	15.50		
25	2,3,4,7,8-PCDF	0.5	1200	600	1200	600	480	240.00	480	240.00		
26	Total PCDF	0	18000	0	18000	0	6800	0.00	6800	0.00		
27	1,2,3,4,7,8-HxCDF	0.1	1700	170	1700	170	580	58.00	580	58.00		
28	1,2,3,6,7,8-HxCDF	0.1	1900	190	1900	190	660	66.00	660	66.00		
29	2,3,4,6,7,8-HxCDF	0.1	1700	170	1700	170	880	88.00	880	88.00		
30	1,2,3,7,8,9-HxCDF	0.1	390	39	390	39	220	22.00	220	22.00		
31	Total HxCDF	0	18000	0	18000	0	6700	0.00	6700	0.00		
32	1,2,3,4,6,7,8-HpCDF	0.01	6000	60	6000	60	2900	29.00	2900	29.00		
33	1,2,3,4,7,8,9-HpCDF	0.01	450	5	450	5	260	2.60	260	2.60		
34	Total HpCDF	0	9400	0	9400	0	4600	0.00	4600	0.00		
35	OCDF	0.001	1600	2	1600	2	1200	1.20	1200	1.20		
36												
37	Gas sample volume (dscf)			113.941	113.941	113.941		111.916	111.916	111.916		
38	O2 (%)			8.97	8.97	8.97		10.17	10.17	10.17		
39												
40	PCDD/PCDF (ng in sample)			1.432	63.7	1.432		0.585	27.6	0.585		
41	PCDD/PCDF (ng/dscm @ 7% O2)	0.0		0.517	22.997	0.517	0.0	0.239	11.261	0.239		
42												
43	TEQ Cond Avg	0.378										
44	Total Cond Avg	17.129										

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	PCDD/PCDF																
2	N																
3	Facility Name and ID:		Bayer, New Martinsville, WV														
4	Condition ID:		340C50														
5	Condition/Test Date:		Old 1992 PCDD/PCDF testing, as reported in new carbon injection evaluation testing report														
6																	
7	I-TEF		Run 1				Run 2										
8	Wght Fact		Total	TEQ	Total	TEQ	Total	TEQ	Total	TEQ	Total	TEQ					
9			Full ND	Full ND	1/2 ND	1/2 ND	Full ND	Full ND	1/2 ND	1/2 ND							
10	Detected in sample volume (pg)																
11	2,3,7,8-TCDD		1														
12	Total TCDD		0														
13	1,2,3,7,8-PCDD		0.5														
14	Total PCDD		0														
15	1,2,3,4,7,8-HxCDD		0.1														
16	1,2,3,6,7,8-HxCDD		0.1														
17	1,2,3,7,8,9-HxCDD		0.1														
18	Total HxCDD		0														
19	1,2,3,4,6,7,8-HpCDD		0.01														
20	Total HpCDD		0														
21	OCDD		0.001														
22	2,3,7,8-TCDF		0.1														
23	Total TCDF		0														
24	1,2,3,7,8-PCDF		0.05														
25	2,3,4,7,8-PCDF		0.5														
26	Total PCDF		0														
27	1,2,3,4,7,8-HxCDF		0.1														
28	1,2,3,6,7,8-HxCDF		0.1														
29	2,3,4,6,7,8-HxCDF		0.1														
30	1,2,3,7,8,9-HxCDF		0.1														
31	Total HxCDF		0														
32	1,2,3,4,6,7,8-HpCDF		0.01														
33	1,2,3,4,7,8,9-HpCDF		0.01														
34	Total HpCDF		0														
35	OCDF		0.001														
36																	
37	Gas sample volume (dscf)																
38	O2 (%)																
39																	
40	PCDD/PCDF (ng in sample)																
41	PCDD/PCDF (ng/dscm @ 7% O2)																
42																	
43	TEQ Cond Avg		16.0														
44	Total Cond Avg																