

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase II ID No.	2016
4	EPA ID No.	TXD008123317
5	Facility Name	E.I. Du Pont De Nemours & Company, Inc.
6	Facility Location	
7	City	Victoria
8	State	TX
9	Unit ID Name/No.	Boiler No. 1
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid-fired
14	Combustor Characteristics	
15	Capacity (MMBtu/hr)	400
16	Soot Blowing	None
17	APCS Detailed Acronym	
18	APCS General Class	
19	APCS Characteristics	
20	Hazardous Wastes	Liq
21	Haz Waste Description	Liquid wastes
22	Supplemental Fuel	?
23		
24	Stack Characteristics	
25	Diameter (ft)	12.3
26	Height (ft)	150
27	Gas Velocity (ft/sec)	
28	Gas Temperature (°F)	
29		
30	Permitting Status	Tier I for metals, CI (except Cr+6 Tier III)
	HWC Burn Status (Date if	
31	Terminated)	

	B	C
1	Cond Description	
2		
3	2016C1	
4		
5	Report Name/Date	Dupont DRE Burn, Boiler No. 1 Stack, Victoria, TX, Feb. 1999
6	Report Prepare	METCO Env
7	Testing Firm	METCO Env
8	Testing Dates	February 19-20, 1999
9	Cond Dates	Feb-99
10	Condition Descr	Trial burn; DRE
11	Content	Monochlorobenzene DRE
12		
13	2016C2	
14		
15	Report Name/Date	Dupont Risk Burn, Boiler No. 1 Stack, Victoria, TX, Feb. 1999
16	Report Prepare	METCO Env
17	Testing Firm	METCO Env
18	Testing Dates	February 16-20, 1999
19	Cond Dates	Feb-99
20	Condition Descr	Risk burn
21	Content	PCDD/PCDF, PM, PSD, HCl/Cl ₂

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions											
2												
3		Comments	Units	7% O2								
4												
5												
6	2016C1					R1		R2		R3		Cond Avg
7												
8	POHC DRE	Chlorobenzene										
9	POHC Feedrate		lb/hr			102.5		102.5		105.6		
10	Emissions Rate											
11	DRE	E1	%		>	99.998	>	99.997	>	99.998		
12												
13	Sampling Train	POHC Train	E1									
14	Stack Gas Flowrate		dscfm			111081		112634		114806		112840.3
15	O2		%			14.8		14.8		14.8		14.8
16	Moisture		%			7.77		7.92		8.45		8.0
17	Temperature		°F			283		281		292		285.3
18												
19	2016C2					R1		R2		R3		Cond Avg
20												
21	PM	E1	gr/dscf	y		0.0038		0.0022		0.0025		0.0028
22	HCl		ppmv	n		0.05		0.03		0.04		0.04
23	Cl2		ppmv	n		0.03		0.04		0.02		0.03
24	Chromium (Hex)		µg/dscm	n		183.1		162.2		34.4		126.6
25												
26	Sampling Train	PM, HCl/Cl2	E1									
27	Stack Gas Flowrate		dscfm			95853		108659		112222		105578
28	O2		%			9.6		10.6		10.4		10.2
29	Moisture		%			12.95		11.46		10.66		11.7
30	Temperature		°F			349		300		301		316.7
31												
32	Sampling Train	Cr (+6)	E2									
33	Stack Gas Flowrate		dscfm			92437		109357		112862		104885.3
34	O2		%			9.6		10.6		10.4		10.2
35	Moisture		%			13		11.78		10.91		11.9
36	Temperature		°F			349		302		303		318.0
37												
38	Sampling Train	PCDD/PCDF	E3									
39	Stack Gas Flowrate		dscfm			110709		110417		111852		110992.7
40	O2		%			10.4		10.5		10.4		10.4
41	Moisture		%			11.16		11.64		10.83		11.2
42	Temperature		°F			311		317		312		313.3
43												
44	HCl	E1	ppmv	y		0.06		0.04		0.05		0.05
45	Cl2	E1	ppmv	y		0.04		0.05		0.03		0.04
46	Total Chlorine	E1	ppmv	y		0.14		0.15		0.11		0.13
47	Chromium (Hex)	E2	µg/dscm	y		224.9		218.3		45.4		164.1
48												
49	Particle Size Distribut	in microns										
50	Median Size		microns			3.05		2.85		2.85		
51	<2		% wt			38		44.5		37.8		
52	<10		% wt			85		81.3		91.8		

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	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	Feedstreams																									
2																										
3																										
4	2016C1				R1		R2		R3		Cond Avg															
5	Feedstream Number				F1		F1		F1		F1															
6	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW															
7	Feedstream Description				NVR Waste		NVR Waste		NVR Waste		NVR Waste															
8	Stack Gas Flowrate	dscfm			112840.3		112840.3		112840.3		112840.3															
9	Stack Gas Flowrate	%			14.8		14.8		14.8		14.8															
10	Oxygen	MMBtu/hr			222.1		222.1		222.1		222.1															
11	Thermal Feedrate																									
12																										
13	2016C2				R1		R2		R3		Cond Avg															
14	Feedstream Number				F1		F1		F1		F1															
15	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW															
16	Feed Class 2				HW		HW		HW		HW															
17	Feedstream Description				NVR Waste		NVR Waste		NVR Waste		NVR Waste															
18	Feedstream Description				NVR Waste		NVR Waste		NVR Waste		NVR Waste															
19	Density	g/mL			1.053		1.059		1.063		1.063															
20	Viscosity	cSt			262.79		21.15		28.25		25.78															
21	Heating Value	Btu/lb			9146		9051		9508		9242															
22	Ash	wt %		nd	0.1	nd	0.1	nd	0.1	nd	0.1	nd														
23	Chlorine	ppmw		nd	17		18	nd	11		15	nd														
24	Chromium	lb/hr																								
25	Antimony	ppmw		nd	0.1	nd	0.1	nd	0.1	nd	0.1	nd														
26	Arsenic	ppmw		nd	0.05	nd	0.05	nd	0.05	nd	0.05	nd														
27	Barium	ppmw		nd	0.05	nd	0.05	nd	0.05	nd	0.05	nd														
28	Beryllium	ppmw		nd	0.05	nd	0.05	nd	0.05	nd	0.05	nd														
29	Cadmium	ppmw		nd	0.05	nd	0.05	nd	0.05	nd	0.05	nd														
30	Chromium	ppmw		nd	2.8		3.3		3.5		3.1															
31	Cobalt	ppmw		nd	32.7		27.1		25.1		28.5	nd														
32	Lead	ppmw		nd	0.025	nd	0.025	nd	0.025	nd	0.025	nd														
33	Manganese	ppmw		nd	0.15	nd	0.15	nd	0.15	nd	0.15	nd														
34	Mercury	ppmw		nd	0.04	nd	0.04	nd	0.04	nd	0.04	nd														
35	Molybdenum	ppmw		nd	0.4	nd	0.4	nd	0.4	nd	0.4	nd														
36	Nickel	ppmw		nd	0.78		0.75		0.93		0.81															
37	Selenium	ppmw		nd	0.1	nd	0.1	nd	0.1	nd	0.1	nd														
38	Silver	ppmw		nd	0.05	nd	0.05	nd	0.05	nd	0.05	nd														
39	Thallium	ppmw		nd	0.05	nd	0.05	nd	0.05	nd	0.05	nd														
40	Vanadium	ppmw		nd	0.5	nd	0.5	nd	0.5	nd	0.5	nd														
41																										
42	Stack Gas Flowrate	dscfm									105578															
43	Oxygen	%									10.2															
44																										
45	Thermal Feedrate	MMBtu/hr																								
46	Estimated Firing Rate	MMBtu/hr																								
47	Ash	mg/dscm																								
48	Chlorine	ug/dscm																								
49	Chromium	ug/dscm																								
50	Antimony	ug/dscm																								
51																										
52	approx waste feed	lb/hr									24295.7054															
53																										
54	MTECs																									
55																										
56	Antimony	ug/dscm									8.0															
57	Arsenic	ug/dscm									4.0															
58	Barium	ug/dscm									4.0															
59	Beryllium	ug/dscm									4.0															
60	Cadmium	ug/dscm									4.0															

can't calculate need waste feedrates

	AB	AC	AD	AE	AF	A	AH	AI	AJ
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13	Cond Avg		R1		R2		R3		Cond Avg
14									
15	F3								
16	Spike								
17	Total		Total		Total		Total		Total
18	Spike								
19									
20									
21									
22									
23									
24	0.767								
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42	105578								
43	10.2								
44									
45									
46	362.0								
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									8.0
57									4.0
58									4.0
59									4.0
60									4.0

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	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	
61	Chromium		ug/dscm								247.3																
62	Cobalt		ug/dscm								2273.1																
63	Lead		ug/dscm								2.0																
64	Manganese		ug/dscm								1.2																
65	Mercury		ug/dscm								3.2																
66	Molybdenum		ug/dscm								31.9																
67	Nickel		ug/dscm								64.6																
68	Selenium		ug/dscm								8.0																
69	Silver		ug/dscm								4.0																
70	Thallium		ug/dscm								4.0																
71	Vanadium		ug/dscm								39.9																
72	SVM		ug/dscm								6.0																
73	LVM		ug/dscm								255.2																

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	AB	AC	AD	AE	AF	A	AH	AI	AJ
61									247.3
62	71.3								2273.1
63									2.0
64									1.2
65									3.2
66									31.9
67									64.6
68									8.0
69									4.0
70									4.0
71									39.9
72									6.0
73									255.2

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:	DuPont, Victoria, TX, Boiler Nos. 3 and 4															
4	Condition ID:	2016C2															
5	Condition/Test Date:	Risk burn, normal conditions, February, 1999															
6																	
7		I-TEF															
8		Wght Fact															
9			Total	TEQ	Total	TEQ	Total	TEQ	Total	TEQ	Total	TEQ	Total	TEQ	Total	TEQ	Total
10	Stack Gas Cond (ng/dscm @ 7% O2)		Full ND	1/2 ND	Full ND	1/2 ND	Full ND	1/2 ND	Full ND	1/2 ND	Full ND	1/2 ND	Full ND	1/2 ND	Full ND	1/2 ND	Full ND
11	2,3,7,8-TCDD	1	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010
12	TCDD Total	0	0.0100	0.0100	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050
13	1,2,3,7,8-PCDD	0.5	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010
14	PCDD Total	0	0.0030	0.0000	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020
15	1,2,3,4,7,8-HxCDD	0.1	0.0020	0.0002	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010
16	1,2,3,6,7,8-HxCDD	0.1	0.0020	0.0002	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010
17	1,2,3,7,8,9-HxCDD	0.1	0.0020	0.0002	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010
18	HxCDD Total	0	0.0050	0.0000	0.0020	0.0000	0.0020	0.0000	0.0020	0.0000	0.0020	0.0000	0.0020	0.0000	0.0020	0.0000	0.0020
19	1,2,3,4,6,7,8-HpCDD	0.01	0.0020	0.0000	0.0020	0.0000	0.0020	0.0000	0.0020	0.0000	0.0020	0.0000	0.0020	0.0000	0.0020	0.0000	0.0020
20	HpCDD Total	0	0.0040	0.0000	0.0040	0.0000	0.0040	0.0000	0.0040	0.0000	0.0040	0.0000	0.0040	0.0000	0.0040	0.0000	0.0040
21	OCDD	0.001	0.0110	0.0000	0.0110	0.0000	0.0120	0.0000	0.0120	0.0000	0.0120	0.0000	0.0120	0.0000	0.0120	0.0000	0.0120
22	2,3,7,8-TCDF	0.1	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010
23	TCDF Total	0	0.0140	0.0000	0.0140	0.0000	0.0100	0.0000	0.0100	0.0000	0.0100	0.0000	0.0100	0.0000	0.0100	0.0000	0.0100
24	1,2,3,7,8-PCDF	0.05	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010
25	2,3,4,7,8-PCDF	0.5	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010	0.0005	0.0010
26	PCDF Total	0	0.0090	0.0000	0.0090	0.0000	0.0060	0.0000	0.0060	0.0000	0.0060	0.0000	0.0060	0.0000	0.0060	0.0000	0.0060
27	1,2,3,4,7,8-HxCDF	0.1	0.0020	0.0002	0.0020	0.0002	0.0020	0.0002	0.0020	0.0002	0.0020	0.0002	0.0020	0.0002	0.0020	0.0002	0.0020
28	1,2,3,6,7,8-HxCDF	0.1	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010
29	2,3,4,6,7,8-HxCDF	0.1	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010
30	1,2,3,7,8,9-HxCDF	0.1	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010	0.0001	0.0010
31	HxCDF Total	0	0.0100	0.0000	0.0100	0.0000	0.0070	0.0000	0.0070	0.0000	0.0070	0.0000	0.0070	0.0000	0.0070	0.0000	0.0070
32	1,2,3,4,6,7,8-HpCDF	0.01	0.0070	0.0001	0.0070	0.0001	0.0060	0.0001	0.0060	0.0001	0.0060	0.0001	0.0060	0.0001	0.0060	0.0001	0.0060
33	1,2,3,4,7,8,9-HpCDF	0.01	0.0020	0.0000	0.0020	0.0000	0.0010	0.0000	0.0010	0.0000	0.0010	0.0000	0.0010	0.0000	0.0010	0.0000	0.0010
34	HpCDF Total	0	0.0100	0.0000	0.0100	0.0000	0.0080	0.0000	0.0080	0.0000	0.0080	0.0000	0.0080	0.0000	0.0080	0.0000	0.0080
35	OCDF	0.001	0.0100	0.0000	0.0100	0.0000	0.0100	0.0000	0.0100	0.0000	0.0100	0.0000	0.0100	0.0000	0.0100	0.0000	0.0100
36																	
37	PCDD/PCDF (ng/dscm @ 7% O2)		65.1	0.0034	0.084	0.0023	63.6	0.0032	0.068	0.0022	87.9	0.0030	0.041	0.0017	0.0017	0.0017	0.0017
38	TEQ Cond Avg		0.0020														
39	Total Cond Avg		0.0638														
40																	