	B	C
1	**Source Description**	
2		
3	Phase II ID No.	760
4	EPA ID No.	TXD008079642
5	Facility Name	E.I. duPont de Nemours & Co., Inc.
6	Facility Location	
7	City	Orange
8	State	TX
9	Unit ID Name/No.	Boiler No. 8
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)	350
16	Soot Blowing	
17	APCS Detailed Acronym	None
18	APCS General Class	
19	APCS Characteristics	NA
20	Hazardous Wastes	Liq
21	Haz Waste Description	NVR, HMD and Diamine liquid waste
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	10.0
26	Height (ft)	152
27	Gas Velocity (ft/sec)	19.7
28	Gas Temperature (°F)	
29		
30	Permitting Status	Tier IA for metals (except Cr) and chlorine
31	HWC Burn Status (Date if Terminated)	

	B	C
1	**Cond Description**	
2		
3	**760C1**	
4		
5	Report Name/Date	Source Emissions Survey of E.I. Dupont De Nemours & Company, Inc. Sabine River Works
6	Report Prepar	METCO Environmental, Inc.
7	Testing Firm	METCO Environmental, Inc.
8	Testing Dates	June 15, 1995
9	Cond Dates	Jun-95
10	Cond Description	CoC; max temp, haz waste feed and prod rate
11	Content	PM, CO, Cr(+6)/Cr
12		
13	**760C2**	
14		
15	Report Name/Date	Source Emissions Survey of E.I. Dupont De Nemours & Company, Inc. Sabine River Works
16	Report Prepar	METCO Environmental, Inc.
17	Testing Firm	METCO Environmental, Inc.
18	Testing Dates	June 14, 1995
19	Cond Dates	Jun-95
20	Cond Description	CoC; min comb temp
21	Content	CO
22		
23	**760C3**	
24		
25	Report Name/Date	Source Emissions Survey of E.I. Dupont De Nemours & Company, Inc. Sabine River Works
26	Report Prepar	METCO Environmental, Inc.
27	Testing Firm	METCO Environmental, Inc.
28	Testing Dates	July 9, 14, 15, 16, 1998
29	Cond Dates	Jul-98
30	Cond Description	Trial burn; DRE
31	Content	PM, HCl, Cl2, DRE monochlorobenzene
32		
33	**760C4**	
34		
35	Report Name/Date	Source Emissions Survey of E.I. Dupont De Nemours & Company, Inc. Sabine River Works
36	Report Prepar	METCO Environmental, Inc.
37	Testing Firm	METCO Environmental, Inc.
38	Testing Dates	July 20-24, 1998
39	Cond Dates	Jul-98
40	Cond Description	Risk burn
41	Content	PM, metals, PCDD/PCDF, other organics

	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Stack Gas Emissions**												
2													
3		Comments	Units	7% O2									
4										soot blowing			
5													
6	**760C1**					R1		R2		R3		Cond Avg	
7													
8	PM (total)	E1	gr/dscf	y		0.0241		0.0246		0.0378		0.0288	total
9	PM	E1	gr/dscf	y		0.0223		0.0195		0.0359		0.0259	front half
10	CO (MHRA)	E1	ppmv	y		42.1		39.5		92.1		57.9	
11	CO (RA)	E1	ppmv	y		34.0		33.6		42.7		36.8	
12	Chromium (Hex)		lb/hr			0.011		0.009		0.015		0.012	
13	Chromium		lb/hr			0.144		0.121		0.254		0.173	
14													
15	Sampling Train	PM	E1										
16	Stack Gas Flowrate		dscfm			76240		78092		77453		77262	
17	O2		%			7.0		6.8		6.8		6.9	
18	Moisture		%			17.11		16.77		17.39		17.09	
19	Temperature		°F			379		393		384		385.3	
20													
21	Chromium (Hex)	E1	µg/dscm	y		38.6		30.4		51.1		40.0	
22	Chromium	E1	µg/dscm	y		505.0		408.4		864.5		593.0	
23	LVM	E1	µg/dscm	y		505.0		408.4		864.5		593.0	
24													
25													
26	**760C2**					R1		R2		R3		Cond Avg	
27													
28	CO (MHRA)	E1	ppmv	y		30.8		40.9		29.2		33.6	
29	CO (RA)	E1	ppmv	y		17.1		16.5		15.3		16.3	
30													
31	Sampling Train	CO	E1										
32	Stack Gas Flowrate		dscfm			55847		53240		48928		52672	
33	O2		%			13.6		12.8		12.8		13.1	
34	Moisture		%			12.00		13.04		13.34		12.8	
35	Temperature		°F			285		286		286		285.7	
36													
37	**760C3**					R1		R2		R3		Cond Avg	
38													
39	PM	E1	gr/dscf	y		0.0119		0.008		0.0076		0.0092	
40	HCl		ppmv	n		61.4		60		65.2			
41	Cl2		ppmv	n	nd	0.2	nd	0.2	nd	0.2			
42													
43	POHC DRE	Monochlorobenzene											
44	Feedrate												
45	Emission Rate	E1	µg/dscm		nd	5.363	nd	8.197	nd	4.680			
46	DRE	E1	%		>	99.998	>	99.997	>	99.998			
47													
48	Sampling Train	PM, HCl/Cl2	E1										
49	Stack Gas Flowrate		dscfm			59298		60000		59566		59621.3	
50	O2		%			11.9		11.5		11.9		11.8	
51	Moisture		%			18.34		18.12		17.83		18.10	
52	Temperature		°F			330		328		322		326.67	
53													
54	HCl	E1	ppmv	y		94.5		88.4		100.3		94.4	
55	Cl2	E1	ppmv	y		0.3		0.3		0.3		0.3	
56	Total Chlorine	E1	ppmv	y		95.1		89.0		100.9		95.0	
57													
58	**760C4**					R1		R2		R3		Cond Avg	
59													
60	PM	E1	gr/dscf	y		0.0062		0.0040		0.0051		0.0051	
61	Antimony		µg/dscm	n	nd	38.9	nd	13.8	nd	5.9			
62	Arsenic		µg/dscm	n	nd	141.9	nd	40.7	nd	45.0			
63	Barium		µg/dscm	n	nd	138.8	nd	36.7	nd	34.8			
64	Beryllium		µg/dscm	n	nd	2.9	nd	0.8	nd	0.7			
65	Cadmium		µg/dscm	n	nd	2.9	nd	0.8	nd	0.8			
66	Chromium		µg/dscm	n	nd	49.0	nd	51.5		63.0			

	B	C	D	E	F	G	H	I	J	K	L	M	N
67	Lead		µg/dscm	n	nd	47.8	nd	19.5	nd	11.5			
68	Mercury		µg/dscm	n	nd	1.0	nd	0.9	nd	1.0			
69	Nickel		µg/dscm	n	nd	10.0	nd	7.9	nd	7.2			
70	Selenium		µg/dscm	n	nd	128.5	nd	39.6	nd	37.4			
71	Silver		µg/dscm	n	nd	3.8	nd	1.6	nd	1.5			
72	Thallium		µg/dscm	n	nd	470.2	nd	318.3	nd	299.4			
73	Zinc		µg/dscm	n		34.8		12.3		11.7			
74	Chromium (Hex)		g/s		nd	9.6E-05	nd	1.03E-04	nd	1.27E-04			
75													
76	Sampling Train	PM, metals	E1										
77	Stack Gas Flowrate		dscfm			59027		60347		61296		60223	
78	O2		%			12.4		12.3		13.0		12.6	
79	Moisture		%			14.41		14.07		13.87		14.12	
80	Temperature		°F			277		275		286		279	
81													
82	Antimony	E1	µg/dscm	y	nd	63.3	nd	22.2	nd	10.3	100	31.9	
83	Arsenic	E1	µg/dscm	y	nd	231.0	nd	65.5	nd	78.8	100	125.1	high nds?
84	Barium	E1	µg/dscm	y	nd	225.9	nd	59.0	nd	60.9	100	115.3	
85	Beryllium	E1	µg/dscm	y	nd	4.7	nd	1.3	nd	1.3	100	2.4	
86	Cadmium	E1	µg/dscm	y	nd	4.7	nd	1.3	nd	1.5	100	2.5	
87	Chromium	E1	µg/dscm	y	nd	79.8	nd	82.9		110.2	60	90.9	
88	Lead	E1	µg/dscm	y	nd	77.9	nd	31.4	nd	20.1	100	43.1	
89	Mercury	E1	µg/dscm	y	nd	1.6	nd	1.5	nd	1.8	100	1.6	
90	Nickel	E1	µg/dscm	y	nd	16.2	nd	12.8	nd	12.5	100	13.8	
91	Selenium	E1	µg/dscm	y	nd	209.1	nd	63.8	nd	65.4	100	112.8	
92	Silver	E1	µg/dscm	y	nd	6.2	nd	2.6	nd	2.6	100	3.8	
93	Thallium	E1	µg/dscm	y	nd	765.4	nd	512.1	nd	523.9	100	600.5	
94	Zinc	E1	µg/dscm	y		56.6		19.7		20.5		32.3	
95	Chromium (Hex)	E1	µg/dscm	y	nd	5.6	nd	5.8	nd	7.7	100	6.4	
96													
97	SVM	E1	µg/dscm	y	100	82.6	100	32.6	100	21.6	100	45.6	
98	LVM	E1	µg/dscm	y	100	315.5	100	149.6	42	190.3	83	218.5	
99													
100	Particle Size Distribution	in microns											
101	0.5-2.5		% wt			90.3		93.1		92			
102	2.5-5		% wt			7.5		5.4		6.2			
103	5-7.5		% wt			1.7		0.8		1.3			
104	7.5-10		% wt			0.2		0.6		0.2			
105	>10		% wt			0.2		0.1		0.3			

	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	AB	AC
1	**Feedstreams**																											
2																												
3																												
4	**760C1**				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg	
5																												
6	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2									
7	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW									
8	Feed Class 2																				HW		HW		HW		HW	
9	Feedstream Description				NVR		NVR		NVR		NVR		HMD		HMD		HMD		HMD									
10	Feed Rate		g/hr		8123976		8314488		8269128		8235864		1955016		1397088		1759968		1704024									
11	Heat Content		Btu/lb		8031		8031		8031		8031		2027		2027		2027		2027									
12	Thermal Feedrate		MMBtu/hr		147		142		148		145.7		3.52		9.24		8.77		7.2		150.5		151.2		156.8		152.8	
13	Ash		g/hr	nd	4060	nd	4160	nd	4130		4117		977		698		879		851									
14	Chromium (Tri)		g/hr																									
15	Chlorine		g/hr	nd	988.394	nd	987.033	nd	987.034		987.5																	
16	Antimony		g/hr	nd	15.004	nd	15.792	nd	15.792		15.5																	
17	Arsenic		g/hr	nd	1.681	nd	0.789	nd	0.789		1.1																	
18	Barium		g/hr	nd	0.557		0.973	nd	0.395		0.6																	
19	Beryllium		g/hr		0.494		0.493	nd	0.494		0.5																	
20	Cadmium		g/hr	nd	0.198		0.197		0.198		0.2																	
21	Chromium		g/hr	nd	238.89	nd	205.82		425.328		290.0																	
22	Lead		g/hr	nd	15.814	nd	15.792	nd	15.792		15.8																	
23	Mercury		g/hr	nd	0.099	nd	0.099	nd	0.099		0.1																	
24	Silver		g/hr	nd	2.489	nd	2.566	nd	2.549		2.5																	
25	Thallium		g/hr	nd	61.638	nd	63.17	nd	63.17		62.7																	
26																												
27	Stack Gas Flowrate		dscfm		76240		78092		77453		77261.7		76240		78092		77453		77261.7									
28	O2		%		7		6.8		6.8		6.9		7		6.8		6.8		6.9									
29	Estimated Firing Rate		MMBtu/hr																									
30																												
31	*Feedrate MTEC Calculations*																											
32	Ash		mg/dscm	100	31.4	100	30.9	100	31.0	100	31.1		7.5		5.2		6.6		6.4	100	38.9	100	36.1	100	37.6	100	37.5	
33	Chromium (Tri)		ug/dscm		0.0		0.0		0.0		0.0																	
34	Chlorine		ug/dscm	100	7635.0	100	7338.8	100	7399.4		7457.7									100	7635.0	100	7338.8	100	7399.4	100	7457.7	
35	Antimony		ug/dscm	100	115.9	100	117.4	100	118.4		117.2									100	115.9	100	117.4	100	118.4	100	117.2	
36	Arsenic		ug/dscm	100	13.0	100	5.9	100	5.9		8.3									100	13.0	100	5.9	100	5.9	100	8.3	
37	Barium		ug/dscm	100	4.3		7.2	100	3.0		4.8									100	4.3	0	7.2	100	3.0	50	4.8	
38	Beryllium		ug/dscm		3.8		3.7	100	3.7		3.7									0	3.8	0	3.7	100	3.7	33	3.7	
39	Cadmium		ug/dscm	100	1.5		1.5		1.5		1.5									100	1.5	0	1.5	0	1.5	34	1.5	
40	Chromium		ug/dscm	100	1845.3	100	1530.3		3188.5		2188.1									100	1845.3	100	1530.3	0	3188.5	51	2188.1	
41	Lead		ug/dscm	100	122.2	100	117.4	100	118.4		119.3									100	122.2	100	117.4	100	118.4	100	119.3	
42	Mercury		ug/dscm	100	0.8	100	0.7	100	0.7		0.7									100	0.8	100	0.7	100	0.7	100	0.7	
43	Silver		ug/dscm	100	19.2	100	19.1	100	19.1		19.1									100	19.2	100	19.1	100	19.1	100	19.1	
44	Thallium		ug/dscm	100	476.1	100	469.7	100	473.6		473.1									100	476.1	100	469.7	100	473.6	100	473.1	
45																												
46	SVM		ug/dscm		123.7		118.9		119.9		120.8									100	123.7	99	118.9	99	119.9	99	120.8	
47	LVM		ug/dscm		1862.1		1539.9		3198.1		2200.0									100	1862.1	100	1539.9	0	3198.1	52	2200.0	
48																												
49																												
50	**760C2**				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg	
51																												
52	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2									
53	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW									
54	Feed Class 2																				HW		HW		HW		HW	
55	Feedstream Description				NVR		NVR		NVR		NVR		HMD		HMD		HMD		HMD waste									
56	Feed Rate		g/hr		910602		3204533		3205667		2300000		1737817		1738649		1787666		1700000									
57	Heat Content		Btu/lb		8000		8000		8000		8000		2000		2000		2000		2000									
58																												

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1	**Feedstreams**															
2																
3																
4	**760C1**	R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg
5																
6	Feedstream Number	F3		F3		F3		F3		F4		F4		F4		F4
7	Feed Class	Spike		Spike		Spike		Spike		Total		Total		Total		Total
8	Feed Class 2	Spike		Spike		Spike		Spike		Total		Total		Total		Total
9	Feedstream Description	Spike		Spike		Spike		Spike		Total		Total		Total		Total
10	Feed Rate	42266		42938		42693		42632								
11	Heat Content															
12	Thermal Feedrate									150.5		151.2		156.8		152.8
13	Ash	2486		2527		2522		2511								
14	Chromium (Tri)	512.568		521.64		517.104		517								
15	Chlorine															
16	Antimony															
17	Arsenic															
18	Barium															
19	Beryllium															
20	Cadmium															
21	Chromium															
22	Lead															
23	Mercury															
24	Silver															
25	Thallium															
26																
27	Stack Gas Flowrate	76240		78092		77453		77261.7		76240		78092		77453		77261.7
28	O2	7		6.8		6.8		6.9		7		6.8		6.8		6.9
29	Estimated Firing Rate									338.8		352.0		349.2		346.7
30																
31	*Feedrate MTEC Calculati*															
32	Ash	19.2		18.8		18.9		19.0	67	58.1	66	54.9	67	56.5	66	56.5
33	Chromium (Tri)	3959.4		3878.5		3876.5		3904.8	0	3959.4	0	3878.5	0	3876.5	0	3904.8
34	Chlorine								100	7635.0	100	7338.8	100	7399.4	100	7457.7
35	Antimony								100	115.9	100	117.4	100	118.4	100	117.2
36	Arsenic								100	13.0	100	5.9	100	5.9	100	8.3
37	Barium								100	4.3	0	7.2	100	3.0	50	4.8
38	Beryllium								0	3.8	0	3.7	100	3.7	33	3.7
39	Cadmium								100	1.5	0	1.5	0	1.5	34	1.5
40	Chromium	3959.4		3878.5		3876.5		3904.8	32	5804.8	28	5408.8	0	7065.0	18	6092.9
41	Lead								100	122.2	100	117.4	100	118.4	100	119.3
42	Mercury								100	0.8	100	0.7	100	0.7	100	0.7
43	Silver								100	19.2	100	19.1	100	19.1	100	19.1
44	Thallium								100	476.1	100	469.7	100	473.6	100	473.1
45																
46	SVM								100	123.7	99	118.9	99	119.9	99	120.8
47	LVM	3959.4		3878.5		3876.5		3904.8	32	5821.6	28	5418.4	0	7074.6	19	6104.9
48																
49																
50	**760C2**															
51																
52	Feedstream Number															
53	Feed Class															
54	Feed Class 2															
55	Feedstream Description															
56	Feed Rate															
57	Heat Content															
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	Z	AA	AB	AC
59	Stack Gas Flowrate		dscfm		55847		53240		48928		52671.7		55847		53240		48928		52671.7									
60	O2		%		13.6		12.8		12.8		13.1		13.6		12.8		12.8		13.1									
61	Thermal Feedrate		MMBtu/hr		16.0		56.5		56.5		40.5		7.7		7.7		7.9		7.5		23.7		64.1		64.4		50.7	
62																												
63	Estimated Firing Rate		MMBtu/hr																		131		139		127		132.4	
64																												
65	**760C3**				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg	
66																												
67	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2									
68	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW									
69	Feed Class 2																				HW		HW		HW		HW	
70	Feedstream Description				NVR		NVR		NVR		NVR		Diamine		Diamine		Diamine		Diamine									
71	Feed Rate		lb/hr								?								?									
72	Density		ml/g?		1.058		1.057		1.063		1.058		0.9987		0.9972		0.9963		0.997									
73	Heat Content		Btu/lb		2967		2981		2829		2926		348		374		399		374									
74	Monochlorobenzene		ug/l	nd	120	nd	120	nd	120		120.0	nd	50.0	nd	5.0	nd	5.0		20.0									
75	Ash		ppmw		160		160		160		147.0	nd	13.0	nd	13.0	nd	13.0		13.0									
76	Chlorine		ppmw	nd	10	nd	10	nd	10		10.0	nd	10.0	nd	10.0	nd	10.0		10.0									
77	Antimony		ppmw	nd	2	nd	2	nd	2		2.0	nd	2.0	nd	2.0	nd	2.0		2.0									
78	Arsenic		ppmw	nd	2	nd	2	nd	2		2.0	nd	2.0	nd	2.0	nd	2.0		2.0									
79	Barium		ppmw	nd	40	nd	40	nd	40		40.0	nd	40.0	nd	40.0	nd	40.0		40.0									
80	Beryllium		ppmw	nd	1	nd	1	nd	1		1.0	nd	1.0	nd	1.0	nd	1.0		1.0									
81	Cadmium		ppmw	nd	0.4	nd	0.4	nd	0.4		0.4	nd	0.4	nd	0.4	nd	0.4		0.4									
82	Chromium		ppmw		30.6		28.2		29.8		29.5	nd	1.0	nd	1.0	nd	1.0		1.0									
83	Lead		ppmw	nd	0.6	nd	0.6	nd	0.6		0.6	nd	0.6	nd	0.6	nd	0.6		0.6									
84	Mercury		ppmw	nd	0.03	nd	0.03	nd	0.03		0.03	nd	0.0	nd	0.0	nd	0.0		0.03									
85	Silver		ppmw	nd	1	nd	1	nd	1		1.0	nd	1.0	nd	1.0	nd	1.0		1.0									
86	Thallium		ppmw	nd	2	nd	2	nd	2		2.0	nd	2.0	nd	2.0	nd	2.0		2.0									
87																												
88	Stack Gas Flowrate		dscfm		59298		60000		59566		59621.3																	
89	O2		%		11.9		11.5		11.9		11.8																	
90																												
91	Thermal Feedrate		MMBtu/hr																									
92	Estimated Firing Rate		MMBtu/hr																		171		181		172		175	
93	can't make MTEC calcs -- need total mass feedrates																											
94																												
95																												
96																												
97	**760C4**				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg	
98																												
99	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2									
100	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW									
101	Feed Class 2																				HW		HW		HW		HW	
102	Feedstream Description				NVR		NVR		NVR		NVR		Diamine		Diamine		Diamine		Diamine									
103	Feed Rate		lb/hr								?								?									
104	Density		ml/g?		1.08		1.075		1.079		1.078		0.9788		0.994		0.9946		0.9891									
105	Heat Content		Btu/lb		8703		8732		8717		8717		4046		936		923		1968									
106	Chlorine		ppmw	nd	15		14		13		14	nd	23		54		66		48									
107	Ash		%		0.021		0.019		0.02		0.02	nd	0.0015	nd	0.0014		0.0017		0.0015									
108	Antimony		ppmw	nd	2	nd	2	nd	2		2.0	nd	2.0	nd	2.0	nd	2.0		2.0									
109	Arsenic		ppmw	nd	2	nd	2	nd	2		2.0	nd	2.0	nd	2.0	nd	2.0		2.0									
110	Barium		ppmw	nd	40	nd	40	nd	40		40.0	nd	40.0	nd	40.0	nd	40.0		40.0									
111	Beryllium		ppmw	nd	1	nd	1	nd	1		1.0	nd	1.0	nd	1.0	nd	1.0		1.0									
112	Cadmium		ppmw	nd	0.4	nd	0.4	nd	0.4		0.40	nd	0.4	nd	0.4	nd	0.4		0.40									
113	Chromium		ppmw		45.2		45		45.2		44.7	nd	1.0	nd	1.0	nd	1.0		1.0									
114	Lead		ppmw	nd	0.6	nd	0.6	nd	0.6		0.62	nd	0.7	nd	0.6	nd	0.6		0.63									
115	Mercury		ppmw	nd	0.033	nd	0.033	nd	0.033		0.033	nd	0.0	nd	0.0	nd	0.0		0.033									
116	Nickel		ppmw	nd	8	nd	8	nd	8		8.0	nd	8.0	nd	8.0	nd	8.0		8.0									

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
59	Stack Gas Flowrate															
60	O2															
61	Thermal Feedrate															
62																
63	Estimated Firing Rate															
64																
65	**760C3**															
66																
67	Feedstream Number															
68	Feed Class															
69	Feed Class 2															
70	Feedstream Description															
71	Feed Rate															
72	Density															
73	Heat Content															
74	Monochlorobenzene															
75	Ash															
76	Chlorine															
77	Antimony															
78	Arsenic															
79	Barium															
80	Beryllium															
81	Cadmium															
82	Chromium															
83	Lead															
84	Mercury															
85	Silver															
86	Thallium															
87																
88	Stack Gas Flowrate															
89	O2															
90																
91	Thermal Feedrate															
92	Estimated Firing Rate															
93	can't make MTEC calcs --															
94																
95																
96																
97	**760C4**															
98																
99	Feedstream Number															
100	Feed Class															
101	Feed Class 2															
102	Feedstream Description															
103	Feed Rate															
104	Density															
105	Heat Content															
106	Chlorine															
107	Ash															
108	Antimony															
109	Arsenic															
110	Barium															
111	Beryllium															
112	Cadmium															
113	Chromium															
114	Lead															
115	Mercury															
116	Nickel															

	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	AB	AC
117	Selenium		ppmw		2.6		1.9		1.9		2.1		1.1	nd	1.0	nd	1.2		1.1									
118	Silver		ppmw	nd	1	nd	1	nd	1		1.0	nd	1.0	nd	1.0	nd	1.0		1.0									
119	Thallium		ppmw	nd	2	nd	2	nd	2		2.0	nd	2.0	nd	2.0	nd	2.0		2.0									
120	Zinc		ppmw	nd	4	nd	4.7	nd	4		4.4	nd	4.9	nd	4.2	nd	4.0		4.4									
121																												
122	Stack Gas Flowrate		dscfm		59027		60347		61296		60223																	
123	O2		%		12.4		12.3		13		13																	
124																												
125	Estimated Firing Rate		MMBtu/hr																		161.2		166.7		155.7		161.2	
126	can't make MTEC calcs -- need total mass feedrates																											

	B	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
117	Selenium															
118	Silver															
119	Thallium															
120	Zinc															
121																
122	Stack Gas Flowrate															
123	O2															
124																
125	Estimated Firing Rate															
126	can't make MTEC calcs --															

	A	B	C	D	E	F
1	**Process Information**					
2						
3		Units	Run	Run	Run	Avg
4			1	2	3	
5						
6	**760C1**					
7						
8	Burner Temp	°F	703	715	717	712
9	Production Rate	Mlb/hr	193	192	196	194
10						
11	**760C2**					
12						
13	Burner Temp	°F	572	569	562	568
14	Production Rate					

	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 Orange TX, Boiler No. 8															
4	Condition ID:		760C4															
5	Condition/Test Date:		Risk burn, July 20-24, 1998															
6																		
7			I-TEF			Run 2						Run 3					Run 4	
8			Wght Fact		Total	TEQ	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		Full ND	Full ND	1/2 ND	1/2 ND
10	Detected in sample volume (ng)																	
11		2,3,7,8-TCDD	1	nd	0.0030	0.0030	0.0015	0.0015	nd	0.002	0.0020	0.0010	0.0010	nd	0.002	0.0020	0.0010	0.0010
12		1,2,3,7,8-PCDD	0.5	nd	0.0040	0.0020	0.0020	0.0010	nd	0.003	0.0015	0.0015	0.0008	nd	0.004	0.0020	0.0020	0.0010
13		1,2,3,4,7,8-HxCDD	0.1	nd	0.0050	0.0005	0.0025	0.0003	nd	0.006	0.0006	0.0030	0.0003	nd	0.004	0.0004	0.0020	0.0002
14		1,2,3,6,7,8-HxCDD	0.1	nd	0.0050	0.0005	0.0025	0.0003	nd	0.006	0.0006	0.0030	0.0003	nd	0.004	0.0004	0.0020	0.0002
15		1,2,3,7,8,9-HxCDD	0.1	nd	0.0040	0.0004	0.0020	0.0002	nd	0.005	0.0005	0.0025	0.0003	nd	0.004	0.0004	0.0020	0.0002
16		1,2,3,4,6,7,8-HpCDD	0.01	nd	0.0070	0.0001	0.0035	0.0000		0.005	0.0001	0.0050	0.0001	nd	0.006	0.0001	0.0030	0.0000
17		OCDD	0.001		0.0180	0.0000	0.0180	0.0000		0.019	0.0000	0.0190	0.0000		0.024	0.0000	0.0240	0.0000
18		2,3,7,8-TCDF	0.1	nd	0.0040	0.0004	0.0020	0.0002	nd	0.003	0.0003	0.0015	0.0002	nd	0.004	0.0004	0.0020	0.0002
19		1,2,3,7,8-PCDF	0.05	nd	0.0040	0.0002	0.0020	0.0001	nd	0.005	0.0003	0.0025	0.0001	nd	0.005	0.0003	0.0025	0.0001
20		2,3,4,7,8-PCDF	0.5	nd	0.0040	0.0020	0.0020	0.0010	nd	0.004	0.0020	0.0020	0.0010	nd	0.004	0.0020	0.0020	0.0010
21		1,2,3,4,7,8-HxCDF	0.1	nd	0.0040	0.0004	0.0020	0.0002	nd	0.004	0.0004	0.0020	0.0002	nd	0.004	0.0004	0.0020	0.0002
22		1,2,3,6,7,8-HxCDF	0.1	nd	0.0040	0.0004	0.0020	0.0002	nd	0.003	0.0003	0.0015	0.0002	nd	0.004	0.0004	0.0020	0.0002
23		2,3,4,6,7,8-HxCDF	0.1	nd	0.0040	0.0004	0.0020	0.0002	nd	0.004	0.0004	0.0020	0.0002	nd	0.004	0.0004	0.0020	0.0002
24		1,2,3,7,8,9-HxCDF	0.1	nd	0.0050	0.0005	0.0025	0.0003	nd	0.004	0.0004	0.0020	0.0002	nd	0.005	0.0005	0.0025	0.0003
25		1,2,3,4,6,7,8-HpCDF	0.01		0.0170	0.0002	0.0170	0.0002		0.017	0.0002	0.0170	0.0002		0.018	0.0002	0.0180	0.0002
26		1,2,3,4,7,8,9-HpCDF	0.01	nd	0.0040	0.0000	0.0020	0.0000	nd	0.004	0.0000	0.0020	0.0000	nd	0.006	0.0001	0.0030	0.0000
27		OCDF	0.001		0.0210	0.0000	0.0210	0.0000		0.015	0.0000	0.0150	0.0000		0.021	0.0000	0.0210	0.0000
28																		
29		Gas sample volume (dscf)				132.535		132.535			127.168		127.168			133.522		133.522
30		O2 (%)				12.40		12.40			12.30		12.30			13.00		13.00
31																		
32		PCDD/PCDF (ng in sample)				0.0110		0.0056			0.0095		0.0049			0.0099		0.0051
33		PCDD/PCDF (ng/dscm @ 7% O2)		98.1		0.0048		0.0024	97.3		0.0043		0.0022	97.7		0.0046		0.0023
34																		
35		TEQ Cond Avg	0.00232															