	B	C
1	**Source Description**	
2		
3	Phase II ID No.	822
4	EPA ID No.	LAD000778381
5	Facility Name	Exxon Chemical Co.
6	Facility Location	
7	City	Baton Rouge
8	State	LA
9	Unit ID Name/No.	C-Boiler
10	Other Sister Facilities	D-Boiler identical
11	Number of Sister Facilities	1
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid-fired
14	Combustor Characteristics	Erie City package boiler, built in 1970, 50000 lb/hr steam (450 psig @ 450°F)
15	Capacity (MMBtu/hr)	50
16	Soot Blowing	No
17	APCS Detailed Acronym	None
18	APCS General Class	
19	APCS Characteristics	NA
20	Hazardous Wastes	Liq
21	Haz Waste Description	Liquid ignitable (D001), distillation bottoms, vinyl acetate, other HCs, waste oils
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	3.08
26	Height (ft)	44
27	Gas Velocity (ft/sec)	
28	Gas Temperature (°F)	
29		
30	Permitting Status	Tier I for metals; plans to get comparable fuels exemption
31	HWC Burn Status (Date if Terminated)	No longer burning hazardous waste ?? -- closed on 5/17/1999 ??

	B	C
1	**Cond Description**	
2		
3	**822C1**	
4		
5	Report Name/Date	Source Emissions Survey of Exxon Plastics C Boiler Stack, Baton Rouge, LA, July 1997, File 97-103
6	Report Prepar	Metco
7	Testing Firm	Metco
8	Testing Dates	July 15, 1997
9	Cond Dates	Jul-97
10	Cond Description	Trial burn
11	Content	DRE, PSD
12		
13	**822C2**	
14		
15	Report Name/Date	Source Emissions Survey of Exxon Plastics C Boiler Stack, Baton Rouge, LA, July 1997, File 97-103
16	Report Prepar	Metco
17	Testing Firm	Metco
18	Testing Dates	July 16-18, 1997
19	Cond Dates	Jul-97
20	Cond Description	Risk burn, max waste feed
21	Content	D/F, organics, PM, HCl/Cl2

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions**											
2												
3		Comments	Units	7% O2								
4												
5	**822C1**	**trial burn**				R1		R2		R3		Cond Avg
6												
7	CO (RA)	E1	ppmv	y		0.7		0.4		0.8		0.6
8												
9	Sampling Train	POHC	E1									
10	Stack Gas Flowrate		dscfm			4931		5153		4911		4998
11	O2		%			7		7.4		6.8		7.1
12	Moisture		%			15.8		15.3		15.3		15.5
13	Temperature		°F			414		416		411		413.7
14												
15												
16	POHC DRE	Toluene										
17	POHC Feedrate		lb/hr			6.5		6.5		6.5		
18	Emissions Rate		lb/hr			0.00013		0.0003		6.5E-05		
19	DRE	E1	%			99.998		99.996	>	99.999		
20												
21												
22	**822C2**	**risk burn**				R1		R2		R3		Cond Avg
23												
24	PM	E1	gr/dscf	y		0.0016		0.0015		0.0017		0.0016
25	CO (RA)	E1	ppmv	y		22		14.7		17		17.9
26	HCl	E1	ppmv	y		0.6		0.1		0.1		0.3
27	Cl2	E1	ppmv	y	nd	0	nd	0	nd	0		0.0
28	Total Chlorine	E1	ppmv	y		0.6		0.1		0.1		0.3
29												
30	Sampling Train	PM, Chlorine	E1									
31	Stack Gas Flowrate		dscfm			8844		8635		8606		8695
32	O2		%			5.4		4.9		4.8		5.0
33	Moisture		%			13		13		13		13.0
34	Temperature		°F			552		549		547		549.3

	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
1	**Feedstreams**																										
2																											
3																											
4	**822C1**				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		F3		F3		F3		F3
7	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Spike		Spike		Spike		Spike		Total		Total		Total		Total
8	Feed Class 2				HW		HW		HW		HW		Spike		Spike		Spike		Spike		Total		Total		Total		Total
9	Feedstream Description				Liq waste		Liq waste		Liq waste		Liq waste		Toluene Spike		Toluene Spike		Toluene Spike		Toluene Spike		Total		Total		Total		Total
10	Feed Rate												6.5		6.5		6.5		6.5								
11	Heating Value		Btu/lb		12300		12500		12400																		
12	Thermal Feedrate		MMBtu/hr		21.9156		22.24787		22.13848												21.9		22.2		22.1		22.1
13	Density		kg/L		0.848		0.845		0.8499																		
14	Ash		% wt		0.02		0.014		0.014																		
15	Chlorine		mg/kg		33.2	nd	25		42.4																		
16																											
17	Stack Gas Flowrate		dscfm		4931		5153		4911		4998.3																
18	Oxygen		%		7.0		7.4		6.8		7.1																
19	Estimated Firing Rate																				21.9		22.2		22.1		22.1
20																											
21																											
22	Estimated MTECs																										
23																											
24	Estimated waste feedrate		lb/hr		1782		1780		1785		1782.3																
25																											
26	Ash		mg/dscm		19.3		13.3		13.4		15.3										19.3		13.3		13.4		15.3
27	Chlorine		µg/dscm		3208		2377		4063		3215.8										3207.5		2376.7		4063.3		3215.8
28																											
29																											
30																											
31	**822C2**				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg								
32																											
33	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2								
34	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Total		Total		Total		Total								
35	Feed Class 2				HW		HW		HW		HW		Total		Total		Total		Total								
36	Feedstream Description				Liq waste		Liq waste		Liq waste		Liq waste		Total		Total		Total		Total								
37	Feed Rate																										
38	Heating Value		Btu/lb		12500		12300		12200		12333																
39	Density		kg/L		0.848		0.85		0.86																		
40	Ash		% wt		0.01		0.014		0.017																		
41	Chlorine		% wt	nd	0.1	nd	0.1	nd	0.1																		
42	Mercury		ppmw	nd	0.01	nd	0.01	nd	0.01																		
43	Lead		ppmw	nd	2.1	nd	2	nd	2																		
44	Cadmium		ppmw	nd	0.18	nd	0.17	nd	0.17																		
45	Arsenic		ppmw	nd	2.3	nd	2.3	nd	2.3																		
46	Beryllium		ppmw	nd	0.04	nd	0.04	nd	0.04																		
47	Chromium		ppmw	nd	0.56	nd	0.55	nd	0.55																		
48	Nickel		ppmw	nd	0.28	nd	0.27	nd	0.27																		
49	Antimony		ppmw	nd	1	nd	1	nd	1																		
50	Selenium		ppmw	nd	2.5	nd	2.5	nd	2.5																		
51																											
52	Stack Gas Flowrate		dscfm		8844		8635		8606		8695																
53	O2		%		5.4		4.9		4.8		5.0																
54																											
55	Thermal Feedrate		MMBtu/hr		43.7989		44.13444		44.25943		44.165079		43.80		44.13		44.26		44.17								
56	Estimated Firing Rate		MMBtu/hr										43.80		44.13		44.26		44.17								
57																											
58	Estimated MTECs																										

	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
59																											
60	Estimated waste feedrate		lb/hr		3503.9		3588.2		3627.8		3581.0																
61																											
62	Ash		mg/dscm		9.5		13.5		16.6		13.2		9.5		13.5		16.6		13.2								
63	Chlorine		µg/dscm	100	9.5	100	9.7	100	9.7	100	9.6	100	9.5	100	9.7	100	9.7	100	9.6								
64	Mercury		µg/dscm	100	1.0	100	1.0	100	1.0	100	1.0	100	1.0	100	1.0	100	1.0	100	1.0								
65	Lead		µg/dscm	100	199.6	100	193.2	100	194.8	100	195.9	100	199.6	100	193.2	100	194.8	100	195.9								
66	Cadmium		µg/dscm	100	17.1	100	16.4	100	16.6	100	16.7	100	17.1	100	16.4	100	16.6	100	16.7								
67	Arsenic		µg/dscm	100	218.7	100	222.2	100	224.0	100	221.6	100	218.7	100	222.2	100	224.0	100	221.6								
68	Beryllium		µg/dscm	100	3.8	100	3.9	100	3.9	100	3.9	100	3.8	100	3.9	100	3.9	100	3.9								
69	Chromium		µg/dscm	100	53.2	100	53.1	100	53.6	100	53.3	100	53.2	100	53.1	100	53.6	100	53.3								
70	Nickel		µg/dscm	100	26.6	100	26.1	100	26.3	100	26.3	100	26.6	100	26.1	100	26.3	100	26.3								
71	Antimony		µg/dscm	100	95.1	100	96.6	100	97.4	100	96.4	100	95.1	100	96.6	100	97.4	100	96.4								
72	Selenium		µg/dscm	100	237.7	100	241.5	100	243.5	100	240.9	100	237.7	100	241.5	100	243.5	100	240.9								
73																											
74	SVM		µg/dscm	100	108.4	100	104.8	100	105.7	100	106.3	100	108.4	100	104.8	100	105.7	100	106.3								
75	LVM		µg/dscm	100	137.8	100	139.6	100	140.7	100	139.4	100	137.8	100	139.6	100	140.7	100	139.4								

	A	B	C	D	E	F
1	**Process Information**					
2						
3	Cond ID No.	Units	Run	Run	Run	Avg
4			1	2	3	
5						
6	Nothing available					

	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:	Exxon Plastics, Baton Rouge, LA															
4		Condition ID:	822C2															
5		Condition/Test Date:	Risk burn, max waste feed. July 16-18, 1997															
6																		
7			I-TEF				Run 1						Run 2					Run 3
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	0.0300	0.0300	0.0150	0.0150	nd	0.0200	0.0200	0.0100	0.0100	nd	0.0200	0.0200	0.0100	0.0100
12		Total TCDD	0	nd	0.0500	0.0000	0.0250	0.0000	nd	0.0900	0.0000	0.0450	0.0000		0.0900	0.0000	0.0900	0.0000
13		1,2,3,7,8-PCDD	0.5	nd	0.0400	0.0200	0.0200	0.0100	nd	0.0200	0.0100	0.0100	0.0050	nd	0.0300	0.0150	0.0150	0.0075
14		Total PCDD	0	nd	0.0400	0.0000	0.0200	0.0000	nd	0.0200	0.0000	0.0100	0.0000		0.0700	0.0000	0.0700	0.0000
15		1,2,3,4,7,8-HxCDD	0.1	nd	0.0600	0.0060	0.0300	0.0030	nd	0.0300	0.0030	0.0150	0.0015	nd	0.0400	0.0040	0.0200	0.0020
16		1,2,3,6,7,8-HxCDD	0.1	nd	0.0400	0.0040	0.0200	0.0020	nd	0.0300	0.0030	0.0150	0.0015	nd	0.0400	0.0040	0.0200	0.0020
17		1,2,3,7,8,9-HxCDD	0.1	nd	0.0500	0.0050	0.0250	0.0025	nd	0.0300	0.0030	0.0150	0.0015	nd	0.0400	0.0040	0.0200	0.0020
18		Total HxCDD	0	nd	0.0500	0.0000	0.0250	0.0000		0.0400	0.0000	0.0400	0.0000		0.0600	0.0000	0.0600	0.0000
19		1,2,3,4,6,7,8-HpCDD	0.01	nd	0.0800	0.0008	0.0400	0.0004		0.0600	0.0006	0.0600	0.0006	nd	0.0700	0.0007	0.0350	0.0004
20		Total HpCDD	0	nd	0.1500	0.0000	0.0750	0.0000		0.1200	0.0000	0.1200	0.0000		0.0400	0.0000	0.0400	0.0000
21		OCDD	0.001		0.3100	0.0003	0.3100	0.0003		0.2200	0.0002	0.2200	0.0002	nd	0.1000	0.0001	0.0500	0.0001
22		2,3,7,8-TCDF	0.1		0.1800	0.0180	0.1800	0.0180		0.0600	0.0060	0.0600	0.0060		0.0600	0.0060	0.0600	0.0060
23		Total TCDF	0		0.8000	0.0000	0.8000	0.0000		0.0900	0.0000	0.0900	0.0000		0.8600	0.0000	0.8600	0.0000
24		1,2,3,7,8-PCDF	0.05		0.0600	0.0030	0.0600	0.0030	nd	0.0200	0.0010	0.0100	0.0005	nd	0.0200	0.0010	0.0100	0.0005
25		2,3,4,7,8-PCDF	0.5	nd	0.0700	0.0350	0.0350	0.0175		0.0300	0.0150	0.0300	0.0150	nd	0.0200	0.0100	0.0100	0.0050
26		Total PCDF	0		0.6600	0.0000	0.6600	0.0000		0.1600	0.0000	0.1600	0.0000		8.3000	0.0000	8.3000	0.0000
27		1,2,3,4,7,8-HxCDF	0.1		0.2500	0.0250	0.2500	0.0250		0.0500	0.0050	0.0500	0.0050		0.0600	0.0060	0.0600	0.0060
28		1,2,3,6,7,8-HxCDF	0.1		0.1100	0.0110	0.1100	0.0110		0.0300	0.0030	0.0300	0.0030		0.0600	0.0060	0.0600	0.0060
29		2,3,4,6,7,8-HxCDF	0.1		0.1000	0.0100	0.1000	0.0100		0.0400	0.0040	0.0400	0.0040		0.2200	0.0220	0.2200	0.0220
30		1,2,3,7,8,9-HxCDF	0.1	nd	0.0400	0.0040	0.0200	0.0020	nd	0.0300	0.0030	0.0150	0.0015	nd	0.0300	0.0030	0.0150	0.0015
31		Total HxCDF	0		0.7600	0.0000	0.7600	0.0000		0.1100	0.0000	0.1100	0.0000		3.9000	0.0000	3.9000	0.0000
32		1,2,3,4,6,7,8-HpCDF	0.01		0.8200	0.0082	0.8200	0.0082	nd	0.1300	0.0013	0.0650	0.0007	nd	0.1300	0.0013	0.0650	0.0007
33		1,2,3,4,7,8,9-HpCDF	0.01		0.1200	0.0012	0.1200	0.0012	nd	0.0400	0.0004	0.0200	0.0002	nd	0.0500	0.0005	0.0250	0.0003
34		Total HpCDF	0		1.1000	0.0000	1.1000	0.0000	nd	0.1300	0.0000	0.0650	0.0000		0.0800	0.0000	0.0800	0.0000
35		OCDF	0.001		1.4000	0.0014	1.4000	0.0014		0.2500	0.0003	0.2500	0.0003		0.1900	0.0002	0.1900	0.0002
36																		
37		Gas sample volume (dscf)			122.27	122.27	122.27	122.27		124.38	124.38	124.38	124.38		125.13	125.13	125.13	125.13
38		O2 (%)			5.10	5.10	5.10	5.10		5.20	5.20	5.20	5.20		4.60	4.60	4.60	4.60
39																		
40		PCDD/PCDF (ng in sample)			5.320	0.183	5.175	0.131		1.230	0.079	1.110	0.056		13.690	0.104	13.640	0.072
41		PCDD/PCDF (ng/dscm @ 7% O2)		57.3	1.354	0.047	1.317	0.033	56.7	0.310	0.020	0.279	0.014	61.3	3.300	0.025	3.288	0.017
42																		
43		TEQ Cond Avg	0.0216															
44		Total Cond Avg	1.63															