

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase II ID No.	741
4	EPA ID No.	KYD006390017
5	Facility Name	Rohm and Haas Texas, Incorporated
6	Facility Location	
7	City	Louisville
8	State	KY
9	Unit ID Name/No.	Unit No. 100
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid-fired
	Combustor Characteristics	Watertube boiler. ABB Combustion type 35-A-14, 180000 lb/hr of steam @ 400 psig, frontwall burner, economizer, FGR, 248 MMBtu/hr
14		
15	Capacity (MMBtu/hr)	248
16	APCS Detailed Acronym	None
17	APCS General Class	
18	APCS Characteristics	
19	Hazardous Wastes	Liq
20	Haz Waste Descript	Liquid wastes
21	Supplemental Fuel	Natural gas, oil
22		No. 2 fuel oil
23	Stack Characteristics	
24	Diameter (ft)	6.5
25	Height (ft)	212
26	Gas Velocity* (ft/sec)	29.3
27	Gas Temperature* (°F)	434
28		
29	Permitting Status	Adjusted Tier I metals and chlorine
	HWC Burn Status (Date if Terminated)	
30		
31		
32	* At sample location on stack which has a diameter of 7.83 feet.	
33	* At sample location on stack which has a diameter of 7.83 feet.	

	B	C
1	Cond Description	
2		
3	741C1	
4		
5	Report Name/Date	Certification of Compliance Boiler No. 100, Nov. 19, 1999
6	Report Preparer	Focus Environmental, Inc.
7	Testing Firm	TRC Environmental Corporation
8	Testing Dates	August 26-27, 1999
9	Cond Dates	Aug-99
10	Condition Descr	CoC; max waste feed rate, ash spiking (TiO2)
11	Content	PM, CO in stack gas; metals, chlorine and ash in feedstreams

	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Stack Gas Emissions													
2														
3														
4		Comments	Units	7% O2						Soot Blowing		Soot Blow		
5										R3		Corrected		
6	741C1					R1		R2				Cond		
7												Avg		
8	PM	E1	gr/dscf	y		0.028		0.032		0.044		0.0312		
9	CO (RA)	E1	ppmv	y		16.8		11.8		6.9		11.8		
10	CO (MHRA)	E1	ppmv	y		28.1		24.0		8.0		20.0		
11														
12	Sampling Train	PM	E1											
13	Gas Flowrate		dscfm			41041		41680		43752		42158		
14	Oxygen		%			4		5.3		5.5		4.9		
15	Moisture		%			14.3		14.2		15.3		14.6		
16	Gas Temperature		°F			435.3		437.3		429.8		434.1		
17														
18	PM		g/hr			5339		5796		8387		6507	Uncorrected	
19												5857	Corrected Avg	

	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S
1	Feedstreams																
2																	
3																	
4	741C1				Cond Avg		Cond Avg		Cond Avg		R1		R2		R3		Cond Avg
5																	
6	Feedstream Number				F1		F2		F3		F4		F4		F4		F4
7	Feed Class				Liq HW		Spike		NG		Total		Total		Total		Total
8	Feed Class 2				HW		Spike		MF		Total		Total		Total		Total
9	Feedstream Description				Haz waste		Spiking TiO2		Natural Gas		Total		Total		Total		Total
10	Feed Rate	lb/hr			12393												
11	Main gun	lb/hr			9302		31										
12	Side gun	lb/hr			3091												
13	Feed Rate	dscfh							50400								
14	Heating Value	Btu/scf							1022								
15	Main gun	Btu/lb			11000		8393										
16	Side gun	Btu/lb			17000												
17	Ash	g/hr	nd		607		5803		nd		6320	nd	6730	nd	6170		
18	Chlorine	g/hr			1691						2510		1280		1270		
19	Antimony	g/hr	nd		17.1				nd		17	nd	17	nd	18		
20	Arsenic	g/hr	nd		14.1				nd		14	nd	14	nd	14		
21	Barium	g/hr	nd		1.1				nd		1.1	nd	1.1	nd	1.1		
22	Beryllium	g/hr	nd		0.6				nd		0.56	nd	0.57	nd	0.56		
23	Cadmium	g/hr	nd		1.1				nd		1.1	nd	1.1	nd	1.1		
24	Chromium	g/hr	nd		39.4				nd		62	nd	28	nd	28		
25	Chromium (Hex)	g/hr	nd		2.0						1.8		1.8	nd	2.3		
26	Lead	g/hr	nd		56.2				nd		56	nd	57	nd	56		
27	Mercury	g/hr	nd		0.3				nd		0.22	nd	0.39	nd	0.27		
28	Silver	g/hr	nd		2.8				nd		2.8	nd	2.8	nd	2.8		
29	Thallium	g/hr	nd		112.0				nd		111	nd	113	nd	113		
30																	
31	Stack Gas Flowrate	dscfm			42158		42158				41041		41680		43752		42158
32	Oxygen	%			4.9		4.9				4		5.3		5.5		4.9
33																	
34	Thermal Feedrate	MMBtu/hr			154.9				51.5								206.4
35	Estimated Firing Rate	MMBtu/hr															215.5
36																	
37																	
38	<i>Feedrate MTEC Calculations</i>																
39	Ash	mg/dscm	100		7		70		100		75	100	85	100	75	100	78
40	Chlorine	ug/dscm			20541						29662		16128		15441		20410
41	Antimony	ug/dscm	100		208				100		201	100	214	100	219	100	211
42	Arsenic	ug/dscm	100		171				100		165	100	176	100	170	100	171
43	Barium	ug/dscm	100		13				100		13	100	14	100	13	100	13
44	Beryllium	ug/dscm	100		7				100		7	100	7	100	7	100	7
45	Cadmium	ug/dscm	100		13				100		13	100	14	100	13	100	13
46	Chromium	ug/dscm	100		479				100		733	100	353	100	340	100	475
47	Chromium (Hex)	ug/dscm	100		24						21		23	100	28	39	24
48	Lead	ug/dscm	100		683				100		662	100	718	100	681	100	687
49	Mercury	ug/dscm	100		3				100		3	100	5	100	3	100	4
50	Silver	ug/dscm	100		34				100		33	100	35	100	34	100	34
51	Thallium	ug/dscm	100		1361				100		1312	100	1424	100	1374	100	1370
52																	
53	SVM	ug/dscm	100		696				100		675	100	732	100	694	100	700
54	LVM	ug/dscm	100		657				100		905	100	536	100	517	100	653
55																	
56	Tier I Feedrate Limits																
57																	
58	Chlorine	g/hr			8870												
59	Ash	g/hr			6410												
60	Antimony	g/hr			6650												

	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S
61	Arsenic		g/hr		14.2												
62	Mercury		g/hr		1770												
63	Silver		g/hr		66500												
64	Barium		g/hr		1109000												
65	Beryllium		g/hr		5.7												
66	Cadmium		g/hr		11.45												
67	Chromium (Tri)		g/hr		22180000												
68	Chromium (Hex)		g/hr		10.46												
69	Lead		g/hr		2000												
70	Thallium		g/hr		11090												

	A	B	C
1	Process Info		
2			Cond Avg
3			
4	741C1		
5			
6	Comb Temp	°F	2117
7	Steam Prod Rate	lb/hr	154300