

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase II ID No.	772
4	EPA ID No.	TXD084970169
5	Facility Name	Lonza, Inc.
6	Facility Location	
7	City	Pasadena
8	State	TX
9	Unit ID Name/No.	Boiler B-4001B
10	Other Sister Facilities	B-4001A -- identical unit
11	Number of Sister Facilities	1
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid-fired
14	Combustor Characteristics	38.5 MM Btu/hr capacity with 32,000 lb/hr steam @ 125 psig
15	Capacity (MMBtu/hr)	39
16	Soot Blowing	
17	APCS Detailed Acronym	None
18	APCS General Class	
19	APCS Characteristics	
20	Hazardous Wastes	Liq
21	Haz Waste Description	Liquid organic hazardous waste (propylene tetramer, C5's)
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	2.96
26	Height (ft)	52
27	Gas Velocity (ft/sec)	1690
28	Gas Temperature (°F)	426
29		
30	Permitting Status	
	HWC Burn Status (Date if	
31	Terminated)	

	B	C
1	Cond Description	
2		
3	772C10	
4		
5	Report Name/Date	Certification of Compliance for Boilers A/B & C; May 23, 1997
6	Report Preparer	IT Corp
7	Testing Firm	IT Corp
8	Testing Dates	February 18, 1997
9	Cond Dates	Feb-97
10	Cond. Description	CoC; max waste feedrate
11	Content	PM, CO emissions; ash, chlorides, metals in feeds
12		
13	772C11	
14		
15	Report Name/Date	Certification of Compliance for Boilers A/B & C; May 23, 1997
16	Report Preparer	IT Corp
17	Testing Firm	IT Corp
18	Testing Dates	March 3, 1997
19	Cond Dates	Mar-97
20	Cond. Description	CoC; min comb temperature
21	Content	CO emissions

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions											
2												
3		Comment	Units	7% O2								
4										Sootblow		
5												
6	772C10					R1	R2	R3		Cond Avg		
7												
8	PM	E1	gr/dscf	y		0.0045	0.0029	0.002		0.0036		
9	CO (MHRA)	E1	ppmv	y		0.8	0	2.3		1.0		
10												
11	Sampling Train	PM	E1									
12	Stack Gas Flowrate		dscfm			4941	5335	5372		5216		
13	O2		%			6	6	6		6		
14	Moisture		%			13.6	13	13.6		13.4		
15	Temperature		°F			670.3	673.7	681.7		675.2		
16												
17												
18	772C11					R1	R2	R3		Cond Avg		
19												
20	CO (MHRA)	E1	ppmv	y		19.2	0.3	0.2		6.57		

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Feedstreams																
2																	
3																	
4	772C10				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				Liq waste		Spike		Nat gas		Total		Total		Total		Total
10	Feed Rate	g/hr			244300		6356										
11	Feed Rate	scfh							20000								
12	Viscosity	cSt			2.1												
13	Heat Content	Btu/lb			17064												
14	Ash	g/hr			24		180				223		195		195		
15	Chlorine	g/hr			100.0						104.4		104.7		91.5		
16	Mercury	g/hr	nd		0.012				nd		0.012	nd	0.012	nd	0.012		
17	Lead	g/hr	nd		0.240				nd		0.24	nd	0.25	nd	0.25		
18	Cadmium	g/hr	nd		0.012				nd		0.012	nd	0.012	nd	0.012		
19	Arsenic	g/hr	nd		0.012				nd		0.012	nd	0.012	nd	0.012		
20	Beryllium	g/hr	nd		0.012				nd		0.012	nd	0.012	nd	0.012		
21	Chromium	g/hr	nd		0.012				nd		0.012	nd	0.012	nd	0.012		
22	Antimony	g/hr	nd		0.240				nd		0.24	nd	0.25	nd	0.25		
23																	
24	Stack Gas Flowrate	dscfm			5216		5216				4941		5335		5372		
25	O2	%			6		6				6		6		6		
26																	
27	Thermal Feedrate	MMBtu/hr			9.2				20		29.2		29.2		29.2		29.2
28	Estimated Firing Rate	MMBtu/hr															24.8
29																	
30	<i>Feedrate MTEC Calculations</i>																
31	Ash	mg/dscm			2.5		19.0				24.8		20.1		20.0		21.6
32	Chlorine	µg/dscm			10530						11614.1		10787.3		9362.3		10587.9
33	Mercury	µg/dscm	100		1.3				100		1.3	100	1.2	100	1.2	100	1.3
34	Lead	µg/dscm	100		25.3				100		26.7	100	25.8	100	25.6	100	26.0
35	Cadmium	µg/dscm	100		1.3				100		1.3	100	1.2	100	1.2	100	1.3
36	Arsenic	µg/dscm	100		1.3				100		1.3	100	1.2	100	1.2	100	1.3
37	Beryllium	µg/dscm	100		1.3				100		1.3	100	1.2	100	1.2	100	1.3
38	Chromium	µg/dscm	100		1.3				100		1.3	100	1.2	100	1.2	100	1.3
39	Antimony	µg/dscm	100		25.3				100		26.7	100	25.8	100	25.6	100	26.0
40																	
41	SVM	µg/dscm			13.3				100		28.0	100	27.0	100	26.8	100	27.3
42	LVM	µg/dscm			1.9				100		4.0	100	3.7	100	3.7	100	3.8
43																	
44	BIF Feedrate Limits																
45																	
46	Antimony	g/hr			93.3												
47	Arsenic	g/hr			0.073												
48	Barium	g/hr			15333												
49	Beryllium	g/hr			0.073												
50	Cadmium	g/hr			0.073												
51	Chromium	g/hr			0.2												
52	Lead	g/hr			27.3												
53	Mercury	g/hr			93.3												
54	Silver	g/hr			933												
55	Thallium	g/hr			93.3												
56	Chlorine	g/hr			123												

	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	772C10					
7						
8	Firebox Exit Temperature	°F	674	682	686	680.667
9	Steam Production Rate	Mlb/hr	17.8	18.2	19.7	18.6
10						
11	772C11					
12						
13	Firebox Exit Temperature	°F	405	405	405	405