

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase II ID No.	1014
4	EPA ID No.	TXD007376700
5	Facility Name	Celanese
6	Facility Location	
7	City	Pampa
8	State	TX
9	Unit ID Name/No.	Boiler No. 10
10	Other Sister Facilities	None (Boiler No. 9 (Phase II ID No. 1013) is identical but was tested separately)
11	Number of Sister Facilities	0
12	Combustor Class	Coal-fired boiler
13	Combustor Type	Pulverized coal
14	Combustor Characteristics	Manufactured by Combustion Engineering, Model No. VU-40. Water tube, pulverized coal, corner t-fired, steam generating boiler. 750,000 lbs/hr capacity
15	Capacity (MMBtu/hr)	1000
16	Soot Blowing	No
17	APCS Detailed Acronym	FF
18	APCS General Class	FF
19	APCS Characteristics	Baghouse - 10 compartments w/ teflon finnish filters, effective area 198,720 sq ft.
20	Hazardous Wastes	Liq
21	Haz Waste Description	Organic acids and solvent wastes, include but not limited to long-chain carboxylic acids, ketones, esters
22	Supplemental Fuel	Coal
23		Pulverized coal, still solids
24		
25	Stack Characteristics	
26	Diameter (ft)	
27	Height (ft)	
28	Gas Velocity (ft/sec)	
29	Gas Temperature (°F)	371
30		
31	Permitting Status	Tier III - Cr; Tier IA - other metals and chlorine
32	HWC Burn Status (Date if Terminated)	

	B	C
1	Cond Description	
2		
3	1014C10	
4		
5	Report Name/Date	Recertification of Compliance (ReCOC) for Celanese Boilers 9 & 10; No date, Report provided begins at Section 2.0
6	Report Prepare	Focus Environmental
7	Testing Firm	None Identified
8	Testing Dates	September 18, 1998
9	Cond Dates	Sep-98
10	Condition Descr	CoC; max waste feed rate
11	Content	PM, Cr, CO emissions; feeds for metals, ash, chlorides
12		
13	1014C11	
14		
15	Report Name/Date	Recertification of Compliance (ReCOC) for Celanese Boilers 9 & 10; No date, Report provided begins at Section 2.0
16	Report Prepare	Focus Environmental
17	Testing Firm	None Identified
18	Testing Dates	September 16, 1998
19	Cond Dates	Sep-98
20	Condition Descr	CoC; min combustion temp
21	Content	CO

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions											
2												
3		Comments	Units	7% O2								
4												
5										Sootblowing		
6	1014C10					R1	R2	R3		Cond Avg		
7												
8	PM	E1	gr/dscf	y		0.0181	0.0234	0.0138		0.0184		
9	CO (RA)	E1	ppmv	y		22.0	14.1	14.5		16.9		
10	CO (MHRA)	E1	ppmv	y		23.9	15.6	22.7		20.7		
11	HCl		ppmv	n		1.25	1.24	1.13		1.21		
12	Total Chlorine		ppmv	n		0.00	0.00	0.00		0.00		
13	Chromium		µg/dscm	n		4.0	4.8	5.1		4.6		
14												
15	Sampling Train	PM, HCl/Cl2	E1									
16	Stack Gas Flowrate		dscfm			199327	194365	195824		196505		
17	O2		%			6.0	6.2	6.0		6		
18	Moisture		%			10.34	9.87	10.7		10		
19	Temperature		°F			367	374	372		371		
20												
21	Sampling Train	Metals	E2									
22	Stack Gas Flowrate		dscfm			191936	187742	194002		191227		
23	O2		%			6.0	6.2	6.0		6		
24	Moisture		%			10.2	10	10.2		10		
25	Temperature		°F			371	378	377		375		
26												
27	HCl	E1	ppmv	y		1.2	1.2	1.1		1.1		
28	Cl2	E1	ppmv	y		0.0	0.0	0.0		0.0		
29	Total Chlorine	E1	ppmv	y		1.2	1.2	1.1		1.1		
30	Chromium	E2	µg/dscm	y		3.7	4.6	4.7		4.3		
31	LVM	E2	µg/dscm	y		3.7	4.6	4.7		4.3		
32												
33	1014C11					R1	R2	R3		Cond Avg		
34												
35	CO (RA)	E1	ppmv	y		10.3	10.1	5.9		8.8		
36	CO (MHRA)	E1	ppmv	y		16.9	13.8	7.0		12.6		
37												
38	Sampling Train	CO	E1									
39	Stack Gas Flowrate		dscfm									
40	O2		%			4.2	4.14	4.18		4.2		
41	Moisture		%									
42	Temperature		°F									

	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1															
2															
3	R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg
4															
5	F4		F4		F4		F4		F5		F5		F5		F5
6	Misc Fuel		Misc Fuel		Misc Fuel		Misc Fuel		Total		Total		Total		Total
7									Total		Total		Total		Total
8	Vent Gas		Vent Gas		Vent Gas		Vent Gas		Total		Total		Total		Total
9															
10	685.75		680.21		681.01		682.32								
11															
12															
13															
14															
15															
16															
17															
18															
19															
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22															
23															
24															
25															
26															
27															
28															
29															
30															
31								891			901		909		901
32															873
33															
34															
35									7206		6949		6989		7048
36								69.7	3180	100	2472	100	2472	83	2708
37								100	563	100	586	100	573	100	574
38								100	100	100	104	100	102	100	102
39									20770		21848		21243		21287
40									25		26		25		26
41								100	50	100	52	100	51	100	51
42									6185		6441		3734		5453
43								100	376	100	390	100	395	100	387
44								100	3	100	3	100	3	100	3
45								58.5	513	37.7	794	52.2	586	48	631
46									138		169		229		179
47								100	100	100	104	100	102	100	102
48								100	100	100	104	100	102	100	102
49									851		664		612		709
50															
51								100	426	97.1	442	100	433	100	434
52								2.0	6410	1.9	6675	3.22	3963	2.2	5683
53															
54															
55															
56															
57															
58															
59															

	A	B	C	D	E
1	Process Information				
2					
3	1014C10		R1	R2	R3
4					
5	Comb Chamb Temp	°F	1462	1470	1477
6	Steam Production Rate	M lb/hr	745	735	747
7	Baghouse Temp	°F	383	388	386
8					
9	1014C11		R1	R2	R3
10					
11	Comb Chamb Temp	°F	1099	1093	1102
12	Steam Production Rate	M lb/hr	638	642	642
13	Baghouse Temp	°F	336	330	327