

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	3026
4	EPA ID No.	TXD078432457
5	Facility Name	Celanese LTD
6	Facility Location	
7	City	Pasadena
8	State	TX
9	Unit ID Name/No.	Acrylate Liquid Incinerator MN-108
10	Other Sister Facilities	Acrylate Liquid Incinerator MN-109
11	Number of Sister Facilities	1
12	Combustor Class	Onsite incinerator
13	Combustor Type	Liquid incinerator
14	Combustor Characteristics	
15	Capacity (MMBtu/hr)	
16	Soot Blowing	Yes (run 105)
17	APCS Detailed Acronym	WHB
18	APCS General Class	WHB
19	APCS Characteristics	Waste heat boiler
20	Hazardous Wastes	Liq
21	Haz Waste Description	Waste water, formaldehyde
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	9.875
26	Height (ft)	100
27	Gas Velocity (ft/sec)	52.7
28	Gas Temperature (°F)	447
29		
30	Permitting Status	Tier I for all metals
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	3026C1	
4		
5	Report Name/Date	RCRA Trial Burn Test Report, January 1999
6	Report Prepare	AirSource Technologies, Inc.
7	Testing Firm	AirSource Technologies, Inc.
8	Testing Dates	April 8-10, 1998
9	Cond Dates	Apr-98
10	Condition Descr	Trial burn, DRE, PM test
11	Content	PM, CO, DRE

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions											
2												
3		Comments	Units	7% O2								
4												
5												
6	3026C1					R1	R2	R3		Cond Avg		
7												
8	PM	E1	gr/dscf	y		0.0118	0.0135	0.0198		0.0150		
9	PM (total)	E1	gr/dscf	y		0.0284	0.0257	0.0301		0.0281		
10	CO (RA)	E1	ppmv	y		8.7	2.1	1.8		4.2		
11	HC (RA)		ppmv	n		1.8	0.4	1.3		1.2		
12	NOx		ppmv	n		7.6	8.3	8.5		8.1		
13	SO2		ppmv	n		310.7	364.9	358.8		344.8		
14												
15	POHC DRE	Formaldehyde										
16	POHC Feedrate		lb/hr			807	914	741				
17	Emission Rate	E2	lb/hr			0.00021	0.00013	0.0001				
18	DRE	E2	%			99.99997	99.99999	99.99999				
19												
20	Sampling Train	PM	E1									
21	Stack Gas Flowrate		dscfm			112470	114689	105714		110957.7		
22	O2		%			1.87	2.62	2.41		2.3		
23	Moisture		%			18.69	17.65	17.65		18.0		
24	Temperature		°F			452	458	459		456.3		
25												
26	Sampling Train	DRE	E2									
27	Stack Gas Flowrate		dscfm			109844	112585	108569		110332.7		
28	O2		%			1.87	2.62	2.41		2.3		
29	Moisture		%			18.26	17.43	18.2		18.0		
30	Temperature		°F			461	462	462		461.7		
31												
32	HC (RA)	E1	ppmv	y		1.32	0.30	0.98		0.9		
33	NOx	E1	ppmv	y		5.56	6.32	6.40		6.1		
34	SO2	E1	ppmv	y		227.38	277.94	270.21		258.5		

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	Feedstream																					
2																						
3	3026C1	Trial burn																				
4																						
5	Feedstream Number																					
6	Feed Class																					
7	Feed Class 2																					
8	Feedstream Description																					
9	Feed Rate																					
10	Feed Rate																					
11	Heating Value																					
12	Specific Gravity																					
13	Density																					
14	Viscosity																					
15	Ash																					
16	Chlorine																					
17	Antimony																					
18	Arsenic																					
19	Barium																					
20	Beryllium																					
21	Cadmium																					
22	Chromium																					
23	Lead																					
24	Nickel																					
25	Selenium																					
26	Silver																					
27	Thallium																					
28	Zinc																					
29	Mercury																					
30																						
31	Stack Gas Flowrate																					
32	Oxygen																					
33																						
34	Thermal Feedrate																					
35	Estimated Firing Rate																					
36																						
37	Feedrate MTEC Calculations																					
38	Ash																					
39	Chlorine																					
40	Antimony																					
41	Arsenic																					
42	Barium																					
43	Beryllium																					
44	Cadmium																					
45	Chromium																					
46	Lead																					
47	Nickel																					
48	Selenium																					
49	Silver																					
50	Thallium																					
51	Zinc																					
52	Mercury																					
53	SVM																					
54	LVM																					

	B	C	D	E	F	G
1	Process Information					
2						
3	3026C1 Trial burn			R1	R2	R3
4						
5	Firebox Temp	°F		1590	1590	1589