

US EPA ARCHIVE DOCUMENT

	B	C
1	<b>Source Description</b>	
2		
3	Phase II ID No.	1007
4	EPA ID No.	TXD980626014
5	Facility Name	Huntsman Polymers
6	Facility Location	
7	City	Odessa
8	State	TX
9	Unit ID Name/No.	C-Boiler
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid injection
14	Combustor Characteristics	Henry Vogt Model B-16700 steam boiler, 300 MM Btu/hr at 210,000 lb/hr steam @ 600 psig and 750 F
15	Capacity (MMBtu/hr)	300
16	Soot Blowing	
17	APCS Detailed Acronym	None
18	APCS General Class	
19	APCS Characteristics	
20	Hazardous Wastes	Liq
21	Haz Waste Description	Liquid ignitable (D001) and reactive (D003) wastes, plus spent non-halogenated solvents (F003 and D018) and process gas
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	5.5
26	Height (ft)	50.6
27	Gas Velocity (ft/sec)	
28	Gas Temperature (°F)	
29		
30	Permitting Status	Adjusted Tier I for metals and chlorine/chloride feed limits
31	HWC Burn Status (Date if Terminated)	

	B	C
1	<b>Cond Description</b>	
2		
3	<b>1007C1</b>	
4		
5	Report Name/Date	Recertification of Compliance Test Report - Huntsman Polymers C Boiler; Jan, 1999
6	Report Prepar	Franklin Engineering Group, Inc.
7	Testing Firm	METCO
8	Testing Dates	October 22, 1998
9	Cond Dates	Oct-98
10	Cond Description	CoC; maximum feedrate
11	Content	PM, HCl/Cl <sub>2</sub> , CO emissions; metals, chlorine, and ash in feeds

	B	C	D	E	F	G	H	I	J	K	L	M
1	<b>Stack Gas Emissions</b>											
2												
3		Comments	Units	7% O2								
4												
5												
6	<b>1007C1</b>	<b>(Max feedrates)</b>				R1	R2	R3	Cond Avg			
7												
8	PM	E1	gr/dscf	y		0.0384	0.0369	0.0371	0.0375			
9	CO (RA)	E1	ppmv	y		18.62	13.74	10.16	14.2			
10	CO (MHRA)	E1	ppmv	y		42.93	36	26.19	35.0			
11	HCl		ppmv	n		0.46	0.34	0.34				
12	Cl2		ppmv	n		0.02	0.01	0.02				
13	Total Chlorine		ppmv	n		0.5	0.36	0.38				
14												
15	Sampling Train	PM, HCl/Cl2	E1									
16	Stack Gas Flowrate		dscfm			37608	39408	42335	39784			
17	O2		%			5	5.7	6.4	5.70			
18	Moisture		%			23.72	22.31	20.82	22.3			
19	Temperature		°F			463	474	486	474.3			
20												
21	HCl	E1	ppmv	y		0.40	0.31	0.33				
22	Cl2	E1	ppmv	y		0.02	0.01	0.02				
23	Total Chlorine	E1	ppmv	y		0.44	0.33	0.36				

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	<b>Feedstreams</b>																						
2																							
3																							
4	<b>1007C1</b>																						
5	Feedstream Number																						
6	Feed Class																						
7	Feed Class 2																						
8	Feedstream Description																						
9	Feed Rate																						
10																							
11	Ash																						
12	Chlorine																						
13	Mercury																						
14	Lead																						
15	Cadmium																						
16	Arsenic																						
17	Beryllium																						
18	Chromium																						
19	Antimony																						
20																							
21	Stack Gas Flowrate																						
22	O2																						
23																							
24	Thermal Feedrate																						
25	Estimated Firing Rate																						
26																							
27	Feedrate/MTEC Calculations																						
28	Ash																						
29	Chlorine																						
30	Mercury																						
31	Lead																						
32	Cadmium																						
33	Arsenic																						
34	Beryllium																						
35	Chromium																						
36	Antimony																						
37	SVM																						
38	LVM																						
39																							
40																							
41	<b>BIF Feedrate Limits</b>																						
42																							
43	Antimony																						
44	Arsenic																						
45	Barium																						
46	Beryllium																						
47	Cadmium																						
48	Chromium																						
49	Lead																						
50	Mercury																						
51	Silver																						
52	Thallium																						
53	Chlorine																						

	B	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1	<b>Feedstreams</b>																				
2																					
3																					
4	<b>1007C1</b>		R3		Cond Avg		R1	R2	R3	Cond Avg		R1	R2	R3							
5																					
6	Feedstream Number		F3		F3		F4	F4	F4	F4		F5	F5	F5							
7	Feed Class	/	Liq non-HW		Liq non-HW		Spike	Spike	Spike	Spike		Total	Total	Total							
8	Feed Class 2		Non-HW		Non-HW		Spike	Spike	Spike	Spike		Total	Total	Total							
9	Feedstream Description	e	Rec Heptane		Rec Heptane		Spike	Spike	Spike	Spike		Total	Total	Total							
10	Feed Rate		1210000		1500000		29336	29338	29406	29406		Total	Total	Total							
11	Ash	nd	241.7		240		10933	10756	9753	10487											
12	Chlorine	nd	278.0		277	nd	6.8	6.5	6.5	6.5											
13	Mercury	nd	0.04		0.04																
14	Lead	nd	3.99		8.3																
15	Cadmium	nd	1.209		1.1																
16	Arsenic	nd	2.417		2.4																
17	Beryllium	nd	1.209		0.83																
18	Chromium	nd	0.205		0.53																
19	Antimony	nd	14.504		14.5																
20																					
21	Stack Gas Flowrate		42,335		39,784		37,608	39,408	42,335	39,784		40.0	40.0	40.0							193.2
22	O2		6		6		5	6	6	6											
23																					
24	Thermal Feedrate																				
25	Estimated Firing Rate																				
26																					
27	Feedrate MTEC Calcula																				
28	Ash	100	3.2	100	3.3		149.8	147.1	130.1	141.9		154.5	151.8	205.6							170.6
29	Chlorine	100	3708	100	3752	100	92.5	88.4	86.3	89.1		7118.2	6894.6	7122.3	100						7045.1
30	Mercury	100	0.5	100	0.5							50	1.2	1.0	1.0						1.1
31	Lead	100	53.2	100	112.4							100	152.0	388.4	100						224.8
32	Cadmium	100	16.1	100	14.9							100	31.9	25.4	100						29.1
33	Arsenic	100	32.2	100	32.5							100	63.8	61.7	100						61.8
34	Beryllium	100	16.1	100	11.2							100	21.2	30.8	100						27.4
35	Chromium	100	2.7	100	7.2							100	73.0	5.4	100						31.7
36	Antimony	100	193.5	100	196.4							100	382.6	312.7	100						351.9
37	SVM	100	69.3	100	109.8							100	131.5	163.9	100						236.4
38	LVM	100	51.1	100	43.5							100	130.5	97.9	100						111.7
39																					
40																					
41	<b>BIF Feedrate Limits</b>																				
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50	Mercury																				
51	Silver																				
52	Thallium																				
53	Chlorine																				

	A	B	D
1	<b>Process Information</b>		
2			
3		Units	Avg
4			
5	<b>1007C1</b>		
6			
7	Combustion Chamber Temp	°F	1584