

US EPA ARCHIVE DOCUMENT

	B	C
1	<b>Source Description</b>	
2		
3	Phase II ID No.	1006
4	EPA ID No.	TXD000201202
5	Facility Name	Huntsman Corp. (formerly Texaco)
6	Facility Location	
7	City	Port Neches
8	State	TX
9	Unit ID Name/No.	PO/MTBE steam generator # 1 (H-K2-001) (Propylene oxide/methyl tertiary butyl ether
10	Other Sister Facilities	Unit # 2 (H-K2-002) - identical
11	Number of Sister Facilities	1
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid injection
14	Combustor Characteristics	Watertube package boiler. Foster Wheeler AG-5175-XMRW, 225 MMBtu/hr, 175,000 lb/hr steam @ 500 psig and 563 F
15	Capacity (MMBtu/hr)	225
16	Soot Blowing	
17	APCS Detailed Acronym	None
18	APCS General Class	
19	APCS Characteristics	
20	Hazardous Wastes	Liq
21	Haz Waste Description	HW liquids (ignitable, D001) fed up to 12,022 lb/hr, steam atomized at 150 psig
22	Supplemental Fuel	Natural gas
23		Process vapors
24		
25	Stack Characteristics	
26	Diameter (ft)	5
27	Height (ft)	100
28	Gas Velocity (ft/sec)	59
29	Gas Temperature (°F)	400
30		
31	Permitting Status	Tier I for metals and chlorine
32	HWC Burn Status (Date if Terminated)	

	B	C
1	<b>Cond Description</b>	
2		
3	<b>1006C1</b>	
4		
5	Report Name/Date	BIF Certification of Compliance Units H-K2-001 and H-K2-002, Dec. 1996
6	Report Prepar	RMT, Jones and Neuse, Inc.
7	Testing Firm	RMT, Jones and Neuse, Inc.
8	Testing Dates	October 11, 1994
9	Cond Dates	Oct-94
10	Cond Description	CoC; max feedrate
11	Content	PM, CO/HC
12		
13	<b>1006C2</b>	
14		
15	Report Name/Date	BIF Certification of Compliance Units H-K2-001 and H-K2-002, Dec. 1996
16	Report Prepar	RMT, Jones and Neuse, Inc.
17	Testing Firm	RMT, Jones and Neuse, Inc.
18	Testing Dates	October 12, 1994
19	Cond Dates	Oct-94
20	Cond Description	CoC; min comb temp
21	Content	CO/HC
22		
23	<b>1006C3</b>	
24		
25	Report Name/Date	Re-Certification of Compliance of Boiler - PO/MTBE Steam Generators; 11/97
26	Report Prepar	Cubix Corp
27	Testing Firm	Cubix Corp
28	Testing Dates	August 13, 1997
29	Cond Dates	Aug-97
30	Cond. Description	CoC; max feedrate
31	Content	PM, CO/HC; metals, Cl, ash in feed

	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										soot blow		
6	<b>1006C1</b>	<b>(Max feedrates)</b>				R1	R2	R3			Cond Avg	
7												
8	PM	E1	gr/dscf	y		0.0124	0.0095	0.0098				0.0106
9	CO (RA)	E1	ppmv	y								1.17
10	CO (MHRA)	E1	ppmv	y								1.50
11	HC (RA)	E1	ppmv	y								1.0
12												
13	Sampling Train	PM	E1									
14	Stack Gas Flowrate		dscfm			36167	35500	34100				35256
15	O2		%			3.8	3.7	3.6				3.7
16	Moisture		%			19.2	14.6	15.8				16.5
17	Temperature		°F			402	401	398				400.3
18												
19	<b>1006C2</b>					R1	R2	R3			Cond Avg	
20												
21	CO (RA)	E1	ppmv	y			2.54	1.70				2.1
22	CO (MHRA)	E1	ppmv	y			5.4	2.12				3.8
23	HC (RA)	E1	ppmv	y			1.0	1.0				1.0
24												
25	<b>1006C3</b>					R1	R2	R3			Cond Avg	
26												
27	PM	E1	gr/dscf	y		0.009	0.005	0.009				0.0077
28	PM (total)	E1	gr/dscf	y		0.016	0.011	0.02				0.0157
29	CO (RA)	E1	ppmv	y		7.18	8.58	8.92				8.23
30	CO (MHRA)	E1	ppmv	y		21.45	11.64	7.76				13.62
31	HC (RA)	E1	ppmv	y		5.79	2.89	2.63				3.77
32												
33	Sampling Train	PM	E1									
34	Stack Gas Flowrate		dscfm			36167	34330	32830				34442
35	O2		%			3.04	2.71	2.58				2.8
36	Moisture		%			16.36	18.78	18.44				17.9
37	Temperature		°F									

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	<b>Feedstreams</b>																						
2																							
3																							
4	<b>1006C1</b>																						
5																							
6	<b>1006C2</b>																						
7																							
8	<b>1006C3</b>																						
9																							
10	Feedstream Number																						
11	Feed Class																						
12	Feed Class 2																						
13	Feedstream Description																						
14	Feed Rate																						
15	Feed Rate																						
16	Ash																						
17	Chlorine																						
18	Mercury																						
19	Lead																						
20	Cadmium																						
21	Arsenic																						
22	Beryllium																						
23	Chromium																						
24	Antimony																						
25																							
26	Stack Gas Flowrate																						
27	O2																						
28																							
29	Thermal Feedrate																						
30	Heating Value																						
31	Estimated Firing Rate																						
32																							
33	<i>Feedrate MTEC Calculations</i>																						
34	Ash																						
35	Chlorine																						
36	Mercury																						
37	Lead																						
38	Cadmium																						
39	Arsenic																						
40	Beryllium																						
41	Chromium																						
42	Antimony																						
43	SVM																						
44	LVM																						
45																							
46																							
47	<b>BIF Feedrate Limits</b>																						
48																							
49	Antimony																						
50	Arsenic																						
51	Barium																						
52	Beryllium																						
53	Cadmium																						
54	Chromium																						
55	Lead																						
56	Mercury																						
57	Silver																						
58	Thallium																						





	A	B	C
1	<b>Process Information</b>		
2			
3		Units	Cond Avg
4			
5	<b>1006C3</b>		
6			
7	Steam Production Rate	klb/hr	138