

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	613
4	EPA ID No.	TXD007330202
5	Facility Name	Eastman Chemical Company, Longview, Texas
6	Facility Location	
7	City	Longview
8	State	TX
9	Unit ID Name/No.	Rotary kiln incinerator (RKI)
10	Other Sister Facilities	
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Rotary kiln
14	Combustor Characteristics	Rotary kiln, afterburner, International Inc., 10' diameter, 35' long
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	WHB/QC/HES/PBS
18	APCS General Class	WHB, WQ, HEWS, LEWS
19	APCS Characteristics	Waste heat boiler, water quench, free jet scrubber (Hydrosonics fixed throat), packed bed scrubber
20	Hazardous Wastes	Liq, solid, sludge
21	Haz Waste Description	Liquid, sludge, slurries, solids
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	4.0
26	Height (ft)	
27	Gas Velocity (ft/sec)	17.2
28	Gas Temperature (°F)	184.3
29		
30	Permitting Status	Tier III -- As, Cd, Cr, Pb
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	613C10	
4		
5	Report Name/Date	Trial Burn Report, Rotary Kiln Incinerator, Texas Eastman Division Eastman Chemical Company, Longview, Texas, January 4, 1999
6	Report Prepare	Radian International
7	Testing Firm	Radian International
8	Testing Dates	September 24, 1998
9	Cond Dates	Sep-98
10	Condition Descr	Trial burn, high temp metals and chlorine determination
11	Content	PM, HCl/Cl ₂ , HF, HBr, metals, CO, PSD
12		
13	613C11	
14		
15	Report Name/Date	Trial Burn Report, Rotary Kiln Incinerator, Texas Eastman Division Eastman Chemical Company, Longview, Texas, January 4, 1999
16	Report Prepare	Radian International
17	Testing Firm	Radian International
18	Testing Dates	September 22-23, 1998
19	Cond Dates	Sep-98
20	Condition Descr	Trial burn, low temp DRE and risk burn, max ash
21	Content	PM, HCl/Cl ₂ , HF, HBr, D/F, SVOC, VOC, PAH, aldehyde/ketones, CO
22		
23	613C1	
24		
25	Report Name/Date	Environmental Assesment of the Texas Eastman Hazardous Waste Incinerator, February, 1985, Prepared by Acurex, Project # 6699, Purchase Order # 144-0078-B-P, Longview, Texas
26	Report Prepare	Acurex Corp
27	Testing Firm	Acurex Corp
28	Cond Descr	Waste Combination 1, Temp: 1650 F
29	Testing Dates	November 1,2,8, 1984
30	Cond Dates	Nov-84
31		
32	613C2	
33		
34	Report Name/Date	Environmental Assesment of the Texas Eastman Hazardous Waste Incinerator, February, 1985, Prepared by Acurex, Project # 6699, Purchase Order # 144-0078-B-P, Longview, Texas
35	Report Prepare	Acurex Corp
36	Testing Firm	Acurex Corp
37	Cond Descr	Waste Combination 1, Temp: 1500 F
38	Testing Dates	November 5-6, 1984
39	Cond Dates	Nov-84
40		
41	613C3	
42		
43	Report Name/Date	Environmental Assesment of the Texas Eastman Hazardous Waste Incinerator, February, 1985, Prepared by Acurex, Project # 6699, Purchase Order # 144-0078-B-P, Longview, Texas
44	Report Prepare	Acurex Corp
45	Testing Firm	Acurex Corp
46	Cond Descr	Waste Combination 1, Temp: 1800 F
47	Testing Dates	November 7-8, 1984
48	Cond Dates	Nov-85
49		
50	613C4	
51		
52	Report Name/Date	Environmental Assesment of the Texas Eastman Hazardous Waste Incinerator, February, 1985, Prepared by Acurex, Project # 6699, Purchase Order # 144-0078-B-P, Longview, Texas
53	Report Prepare	Acurex Corp
54	Testing Firm	Acurex Corp
55	Cond Descr	Waste Combination 2, Temp: 1650 F
56	Testing Dates	November 9, 1984
57	Cond Dates	Nov-84
58		
59	613C5	
60		

	B	C
61	Report Name/Date	Environmental Assesment of the Texas Eastman Hazardous Waste Incinerator, February, 1985, Prepared by Acurex, Project # 6699, Purchase Order # 144-0078-B-P, Longview, Texas
62	Report Prepare	Acurex Corp
63	Testing Firm	Acurex Corp
64	Cond Descr	Waste Combination 2, Temp: 1800 F
65	Testing Dates	November 12, 1984
66	Cond Dates	Nov-84

	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Stack Gas Emissions 1												
2													
3		Comr Units		7% O2									
4													
5	613C10	high temp metals, chlorine				R1		R2		R3		Cond Avg	
6													
7	PM	E1	gr/dscf	y		0.0153		0.0153		0.0133		0.0146	
8	PM (total)	E1	gr/dscf	y		0.0193		0.0618		0.0567		0.0459	
9	CO (RA)	E1	ppmv	y		0.29		0.85		0.11		0.4	
10	NOx		ppmv	n		24.8		25.2		26.9			
11	SO2		ppmv	n		14.59		14.45		10.5			
12	HCl		ug/dscf	n		41.5		34.5		35			
13	Cl2		ug/dscf	n		1.25	nd	0.338	nd	0.28			
14	HF		ug/dscf	n		4.04		3.84		5.17			
15													
16	Antimony		ug/dscf	n		6.79		7.5		6.38			
17	Arsenic		ug/dscf	n		0.349		0.298		0.264			
18	Beryllium		ug/dscf	n		0.719		0.629		0.636			
19	Cadmium		ug/dscf	n		1.01		1.01		1.03			
20	Chromium		ug/dscf	n		9.96		8.04		7.89			
21	Cobalt		ug/dscf	n		0.0575		0.0575		0.051			
22	Lead		ug/dscf	n		12		12.1		11.1			
23	Manganese		ug/dscf	n		0.412		0.0781		0.0733			
24	Mercury		ug/dscf	n		11.3		10.7		9.76			
25	Nickel		ug/dscf	n		13.6		8.19		8			
26	Selenium		ug/dscf	n		1.03		1.04		0.986			
27	Thallium		ug/dscf	n		3.59		3.84		3.27			
28	Vanadium		ug/dscf	n		0.0165		0.0177		0.0176			
29	Chromium(Hex)		ug/dscf	n		1.61		1.04		0.97			
30													
31	Sampling Train	PM, HE1											
32	Stack Gas Flowrate		dscfm			22100		21600		22200		21966.7	
33	O2		%			11.5		11.3		11.1		11.3	
34	Moisture		%			32.2		33.2		31.5		32.3	
35	Temperature		°F			186		185		186		185.7	
36													
37	Sampling Train	Metals E2											
38	Stack Gas Flowrate		dscfm			23100		23200		22900		23067	
39	O2		%			11.5		11.3		11.1		11	
40	Moisture		%			33.1		33.2		34.2		34	
41	Temperature		°F			190		190		190		190	
42													
43	HCl	E1	ppmv	y		1.4		1.2		1.2		1.25	
44	Cl2	E1	ppmv	y		0.02	nd	0.006	nd	0.005		0.01	
45	Total Chlorine	E1	ppmv	y		1.47		1.17		1.16		1.3	
46													
47	Antimony	E2	ug/dscm	y		353.6		382.5		318.8		351.6	
48	Arsenic	E2	ug/dscm	y		18.2		15.2		13.2		15.5	
49	Beryllium	E2	ug/dscm	y		37.4		32.1		31.8		33.8	
50	Cadmium	E2	ug/dscm	y		52.6		51.5		51.5		51.9	
51	Chromium	E2	ug/dscm	y		518.7		410.0		394.3		441.0	
52	Cobalt	E2	ug/dscm	y		3.0		2.9		2.5		2.8	
53	Lead	E2	ug/dscm	y		624.9		617.1		554.7		598.9	
54	Manganese	E2	ug/dscm	y		21.5		4.0		3.7		9.7	
55	Mercury	E2	ug/dscm	y		588.4		545.7		487.7		540.6	
56	Nickel	E2	ug/dscm	y		708.2		417.7		399.8		508.5	
57	Selenium	E2	ug/dscm	y		53.6		53.0		49.3		52.0	
58	Thallium	E2	ug/dscm	y		186.9		195.8		163.4		182.1	
59	Vanadium	E2	ug/dscm	y		0.9		0.9		0.9		0.9	
60	Chromium (Hex)	E2	ug/dscm	y		83.8		53.0		48.5		61.8	
61													
62	SVM	E2	ug/dscm	y		677.5		668.6		606.1		650.7	
63	LVM	E2	ug/dscm	y		574.3		457.3		439.2		490.3	
64													
65	613C11	DRE / risk burn				R1		R2		R3		Cond Avg	
66													
67	PM	E1	gr/dscf	y		0.0102		0.0129		0.0089		0.0107	
68	PM (total)	E1	gr/dscf	y		0.0136		0.0154		0.0102		0.0131	
69	CO (RA)	E1	ppmv	y		-0.34		-0.75		0.12		-0.3	
70	NOx		ppmv	n		9.52		11.79		18.29			
71	SO2		ppmv	n		0.45		1.89		4.33			

	B	C	D	E	F	G	H	I	J	K	L	M	N
72	HCl		ug/dscf	n		11.4		21.8		14.4			
73	Cl2		ug/dscf	n	nd	0.295		0.382		0.401			
74	HF		ug/dscf	n		3.06		2.76		3.23			
75													
76	POHC		Chlorobenzene										
77	POHC Feedrate		lb/hr			33.47		29.99		29.99			
78	Emission Rate	E2	lb/hr		nd	2.00E-05	nd	2.00E-05	nd	2.00E-05			
79	DRE	E2	%		>	99.99994	>	99.99993	>	99.99993			
80													
81	POHC		1,2-Dichlorobenzene										
82	POHC Feedrate		lb/hr			40.03		40		40.04			
83	Emission Rate	E2	lb/hr		nd	1.61E-04	nd	1.40E-04	nd	4.02E-05			
84	DRE	E2	%		>	99.9996	>	99.99965	>	99.9999			
85													
86	Sampling Train		PM, HE1										
87	Stack Gas Flowrate		dscfm			24900		24200		24700		24600.0	
88	O2		%			13.2		13		13.1		13.1	
89	Moisture		%			27.8		30.6		29.7		29.4	
90	Temperature		°F			185		187		185		185.7	
91													
92	Sampling Train		PCDDE2										
93	Stack Gas Flowrate		dscfm			24000		24200		24200		24133.3	
94	O2		%			13.2		13		13.1		13.1	
95	Moisture		%			28.4		28.6		27.8		28.3	
96	Temperature		°F			183		184		183		183.3	
97													
98	HCl	E1	ppmv	y		0.5		0.9		0.6		0.68	
99	Cl2	E1	ppmv	y		0.01		0.01		0.01		0.01	
100	Total Chlorine	E1	ppmv	y		0.51		0.95		0.64		0.70	

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions 2											
2												
3												
4	613C1					R1		R2		R3		Cond Avg
5												
6	PM	E1	gr/dscf	y		0.0089		0.0086		0.0057		0.0077
7	HCl	E1	ppmv	y	nd	0.2	nd	0.3	nd	0.2	100	0.2
8	Total Cl	E1	ppmv	y		0.2		0.3		0.2	100	0.2
9												
10	Sampling Train	PM/HCl	E1									
11	Stack Gas Flowrate		dscfm			23800.0		23300.0		23700.0		
12	O2		%			11.6		11.2		11.2		
13	Moisture		%			23.0		24.0		23.0		
14	Temperature		°F			190.0		188.0		190.0		
15												
16	Benzene	E1	%			99.906		99.911		99.963		
17	Naphthalene	E1	%			99.999		99.998		99.999		
18	Toluene	E1	%			99.997		99.998		99.9995		
19												
20	613C2					R1		R2		R3		Cond Avg
21												
22	PM	E1	gr/dscf	y		0.0064		0.0078		0.0082		0.0075
23	HCl	E1	ppmv	y	nd	0.3	nd	0.3	nd	0.2		0.3
24	Total Cl	E1	ppmv	y		0.3		0.3		0.2	100	0.3
25												
26	Sampling Train	PM/HCl	E1									
27	Stack Gas Flowrate		dscfm			25400.0		25400.0		25700.0		
28	O2		%			12.3		12.0		12.5		
29	Moisture		%			21.0		22.0		22.0		
30	Temperature		°F			181.0		183.0		183.0		
31												
32	Benzene	E1	%					99.87				
33	Naphthalene	E1	%			99.9987		99.9984		99.9991		
34	Toluene	E1	%					99.99941				
35												
36	613C3					R1		R2		R3		Cond Avg
37												
38	PM	E1	gr/dscf	y		0.0040		0.0055		0.0082		0.0059
39	HCl	E1	ppmv	y	nd	0.2	nd	0.2	nd	0.2		0.2
40	Total Cl	E1	ppmv	y		0.2		0.2		0.2	100	0.2
41												
42	Sampling Train	PM/HCl	E1									
43	Stack Gas Flowrate		dscfm			23900.0		24000.0		24100.0		
44	O2		%			10.6		10.8		10.8		
45	Moisture		%			27.0		26.0		26.0		
46	Temperature		°F			190.0		193.0		191.0		
47												
48	Benzene	E1	%					99.84		99.961		
49	Naphthalene	E1	%			99.9984		99.9967		99.99913		
50	Toluene	E1	%					99.99909		99.99974		
51												
52	613C4					R1		R2		R3		Cond Avg
53												
54	PM	E1	gr/dscf	y		0.0082		0.0111		0.0113		0.0102
55	HCl	E1	ppmv	y	nd	0.2	nd	0.2	nd	0.2		0.2
56	Total Cl	E1	ppmv	y	100	0.2	100	0.2	100	0.2	100	0.2
57												
58	Sampling Train	PM/HCl	E1									
59	Stack Gas Flowrate		dscfm			25400.0		25400.0		25600.0		
60	O2		%			12.5		12.2		12.3		
61	Moisture		%			20.0		21.0		21.0		
62	Temperature		°F			188.0		189.0		185.0		
63												
64	Chlorobenzene	E1	%			99.99923		99.99941		99.9995		
65	Chloroform	E1	%			99.9977		99.99973		99.99977		
66	Toluene	E1	%			99.972		99.9961		99.9986		
67												
68	613C5					R1		R2		R3		Cond Avg
69												
70	PM	E1	gr/dscf	y		0.0204		0.0159		0.0124		0.0163
71	HCl	E1	ppmv	y	nd	0.2	nd	0.2	nd	0.2		0.2

	B	C	D	E	F	G	H	I	J	K	L	M
72	Total Cl	E1	ppmv	y	100	0.2	100	0.2	100	0.2	100	0.2
73												
74	Sampling Train	PM/HCl	E1									
75	Stack Gas Flowrate		dscfm			27200.0		27200.0		27600.0		
76	O2		%			12.1		12.2		12.0		
77	Moisture		%			21.0		22.0		22.0		
78	Temperature		°F			183.0		184.0		186.0		
79												
80	Chlorobenzene	E1	%			99.99949		99.99961		99.99973		
81	Chloroform	E1	%			99.99972		99.99977		99.99986		
82	Toluene	E1	%			99.9982		99.99936		99.9992		

B		C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	
1	Feedstream 1																										
2																											
3																											
4	613C10																										
5		Trial burn																									
6	Feedstream Number																										
7	Feed Class																										
8	Feed Class 2																										
9	Feedstream Description																										
10	Feed Rate	lb/hr																									
11	Heating Value	Btu/lb																									
12	Thermal Feedrate	MMBtu/hr																									
13	Ash	lb/hr																									
14	Chlorine	lb/hr																									
15	Antimony	lb/hr																									
16	Arsenic	lb/hr																									
17	Barium	lb/hr																									
18	Beryllium	lb/hr																									
19	Cadmium	lb/hr																									
20	Chromium	lb/hr																									
21	Lead	lb/hr																									
22	Mercury	lb/hr																									
23	Nickel	lb/hr																									
24	Selenium	lb/hr																									
25	Silver	lb/hr																									
26	Thallium	lb/hr																									
27																											
28	Stack Gas Flowrate	dsctm																									
29	Oxygen	%																									
30																											
31	Estimated Firing Rate	MMBtu/hr																									
32																											
33	Feedrate MTEC Calculations																										
34	Ash	mg/dscm																									
35	Chlorine	ug/dscm																									
36	Antimony	ug/dscm																									
37	Arsenic	ug/dscm																									
38	Barium	ug/dscm																									
39	Beryllium	ug/dscm																									
40	Cadmium	ug/dscm																									
41	Chromium	ug/dscm																									
42	Lead	ug/dscm																									
43	Mercury	ug/dscm																									
44	Nickel	ug/dscm																									
45	Selenium	ug/dscm																									
46	Silver	ug/dscm																									
47	Thallium	ug/dscm																									
48	SVM	ug/dscm																									
49	LVM	ug/dscm																									
50																											
51																											
52																											
53	613C11																										
54																											
55	Feedstream Number																										
56	Feed Class																										
57	Feed Class 2																										
58	Feedstream Description																										
59	Feed Rate	lb/hr																									
60	Heating Value	Btu/lb																									

B		AB	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AV	AW	AX	AY	AZ
1	Feedstream 1																							
2																								
3																								
4	613C10	Cond Avg	R1	F4	R2	F4	R3	F4	Cond Avg	R1	F5	R2	F5	R3	F5	R3	Cond Avg	R1	F5	R2	F5	R3	Cond Avg	
5	Feedstream Number	F3	F4	F4	F4	F4	F4	F4	F4	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5
6	Feed Class	Solid HW	Spike	Spike	Spike	Spike	Spike	Spike	Spike	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
7	Feed Class 2																							
8	Feedstream Description	Drummed solids	Spike	Spike	Spike	Spike	Spike	Spike	Spike	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
9	Feed Rate																							
10	Heating Value									45.5	66.0	66.8	66.8	66.0	66.8	66.8	59.4							
11	Thermal Feedrate																							
12	Ash		130		130		130		130															
13	Chlorine		290.74		300.12		300.21		300.21															
14	Antimony		10.07		10.07		10.07		10.07															
15	Arsenic		0.2		0.2		0.2		0.2															
16	Barium		20.2		20.2		20.2		20.2															
17	Beryllium		0.2		0.2		0.2		0.2															
18	Cadmium		0.2		0.2		0.2		0.2															
19	Chromium		7.43		7.54		7.48		7.48															
20	Lead		3.2		3.2		3.2		3.2															
21	Mercury		0.1		0.1		0.1		0.1															
22	Nickel		107		110.15		111.75		111.75															
23	Selenium		0.51		0.51		0.51		0.51															
24	Silver		0.51		0.51		0.51		0.51															
25	Thallium		1.01		1.01		1.01		1.01															
26	Thallium		1.01		1.01		1.01		1.01															
27																								
28	Stack Gas Flowrate		23100		23200		22900		23067															
29	Oxygen		11.5		11.3		11.1		11.1															
30			11		11.5		11.1		11.1															
31	Estimated Firing Rate																							
32																								
33	Feedrate MTEC Calculat																							
34	Ash		6496.0		2217.5		2162.4		2175.4															
35	Chlorine		475400.5		4959243.2		4992078.7		4969371.2															
36	Antimony		6.5		171767.1		167500.4		168511.4															
37	Arsenic		264.5		3411.5		3326.7		3346.8															
38	Barium		777.4		344557.7		335998.9		338026.8															
39	Beryllium		8.3		3411.5		3326.7		3346.8															
40	Cadmium		94.2		3411.5		3326.7		3346.8															
41	Chromium		0.0		126735.8		125417.4		125218.7															
42	Lead		1192.4		54583.4		53227.5		53548.8															
43	Mercury		0.1		1705.7		1663.4		1673.4															
44	Nickel		8916704.4		1825132.5		1832192.0		1834146.0															
45	Selenium		49.1		8699.2		8483.1		8534.3															
46	Silver		1.7		8699.2		8483.1		8534.3															
47	Thallium		6.0		17227.9		16799.9		16901.3															
48	SVM		1286.6		57994.9		56554.3		56137.7															
49	LVM		272.9		133558.8		132070.9		131912.3															
50																								
51																								
52																								
53	613C11	Cond Avg	R1	F4	R2	F4	R3	F4	Cond Avg	R1	F5	R2	F5	R3	F5	R3	Cond Avg	R1	F5	R2	F5	R3	Cond Avg	
54	Feedstream Number	F3	F4	F4	F4	F4	F4	F4	F4	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5	F5
55	Feed Class	Solid HW	Spike	Spike	Spike	Spike	Spike	Spike	Spike	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
56	Feed Class 2																							
57	Feedstream Description	Drummed solids	Spike	Spike	Spike	Spike	Spike	Spike	Spike	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
58	Feed Rate																							
59	Heating Value																							
60																								

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	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
61	Thermal Feedrate		MMBtu/hr		40.8		45.2		41.6												4.9		4.8		4.4	
62	Ash		lb/hr		1.06		1.06		1.62												993.2		1119.2		1070.5	
63	Chlorine		lb/hr		0.95		2.09		0.69												8.7		9.4		9.0	
64																										
65	Stack Gas Flowrate		dscfm		24900		24200		24700												24900		24200		24700	
66	Oxygen		%		13.2		13		13.1												13.2		13		13.1	
67	Estimated Firing Rate		MMBtu/hr																							
69																										
70	Feedrate MTEC Calculations																									
71	Ash		mg/dscm		20.4		20.5		31.1												19141.6		21639.5		20535.6	
72	Chlorine		ug/dscm		18309.5		40409.8		13236.4												167676.2		181747.6		172649.2	

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	B	AB	AD	AE	AF	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AV	AW	AX	AY	AZ	
61	Thermal Feedrate									45.6	49.9	46.0	47.2											
62	Ash																							
63	Chlorine		29.7		28.6	28.6																		
64							24700			24900	24200	24700	24600											
65	Stack Gas Flowrate		24900		24200	24700				13.2	13	13.1	13.1											
66	Oxygen		13.2		13	13.1																		
67	Estimated Firing Rate									61.66	61.46	61.95	61.70											
68																								
69																								
70	Feedrate MTEC Calculat	20438.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19162.1	21660.0	20566.7	20462.9	19162.1	21660.0	20566.7	19162.1	21660.0	20566.7	19162.1	21660.0	20566.7	20462.9	
71	Ash	174024.4	571906.5	552433.0	548469.7	557603.1	557603.1	557603.1	557603.1	757892.2	774590.4	734355.4	755612.7	185985.7	222157.4	185985.7	222157.4	185985.7	222157.4	185985.7	222157.4	185985.7	222157.4	198009.6
72	Chlorine																							

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B		C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1	Feedstream 2																										
2																											
3																											
4	613C1																										
5	Feedstream Number																										
6	Feed Class																										
7	Feed Class 2																										
8	Feedstream Description																										
9	Feedrate	lb/hr																									
10	Heating value	Btu/lb																									
11	Ash	wt %																									
12	Chlorine	lb/hr	6.248																								
13	Chlorine	lb/hr	6.248																								
14	Stack gas Flowrate	dscfm	23800																								
15	Oxygen	%	11.6																								
16	Stack gas Flowrate	dscfm	23800																								
17	Oxygen	%	11.6																								
18	Estimated Firing Rate	MMBtu/hr																									
19	Estimated Firing Rate	MMBtu/hr																									
20	Feedrate MTEC	ug/dscm	104540																								
21	Chlorine	ug/dscm	104540																								
22	Chlorine	ug/dscm	104540																								
23	613C2																										
24	Feedstream Number																										
25	Feed Class																										
26	Feed Class 2																										
27	Feedstream Description																										
28	Feedrate	lb/hr																									
29	Heating value	Btu/lb																									
30	Ash	wt %																									
31	Ash	wt %																									
32	Chlorine	lb/hr	3.009																								
33	Chlorine	lb/hr	3.009																								
34	Stack gas Flowrate	dscfm	25400																								
35	Oxygen	%	12.3																								
36	Stack gas Flowrate	dscfm	25400																								
37	Oxygen	%	12.3																								
38	Estimated Firing Rate	MMBtu/hr																									
39	Estimated Firing Rate	MMBtu/hr																									
40	Feedrate MTEC	ug/dscm	50970																								
41	Chlorine	ug/dscm	50970																								
42	Chlorine	ug/dscm	50970																								
43	613C3																										
44	Feedstream Number																										
45	Feed Class																										
46	Feed Class 2																										
47	Feedstream Description																										
48	Feedrate	lb/hr																									
49	Heating value	Btu/lb																									
50	Ash	wt %																									
51	Chlorine	lb/hr	5.89																								
52	Chlorine	lb/hr	5.89																								
53	Stack gas Flowrate	dscfm	23900																								
54	Oxygen	%	10.6																								
55	Stack gas Flowrate	dscfm	23900																								
56	Oxygen	%	10.6																								
57	Estimated Firing Rate	MMBtu/hr																									
58	Estimated Firing Rate	MMBtu/hr																									
59	Feedrate MTEC	ug/dscm	88701																								
60	Chlorine	ug/dscm	88701																								

B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP
1	Feedstream 2													
2														
3														
4	613C1	R1	R2	R3	Cond Avg	R1	R2	R3						
5	Feedstream Number	F3	F3	F3	F3	F3	F3	F3						
6	Feed Class	Total	Total	Total	Total	Total	Total	Total						
7	Feed Class 2	Total	Total	Total	Total	Total	Total	Total	Spike	Spike	Spike	Spike	Spike	Spike
8	Feedstream Description	Total	Total	Total	Total	Total	Total	Total						
9	Feedrate													
10	Heating value													
11	Ash													
12	Chlorine													
13														
14	Stack gas Flowrate	23800	23300	23700	23600									
15	Oxygen	11.6	11.2	11.2	11.3									
16														
17	Estimated Firing Rate	71.02	72.49	73.73	72.42									
18														
19	Feedrate MTEC													
20	Chlorine	136263	173768	155654	155228	136263	173768	155654						
21														
22	613C2	R1	R2	R3	Cond Avg	R1	R2	R3						
23	Feedstream Number	F3	F3	F3	F3	F3	F3	F3						
24	Feed Class	Total	Total	Total	Total	Total	Total	Total						
25	Feed Class 2	Total	Total	Total	Total	Total	Total	Total	Spike	Spike	Spike	Spike	Spike	Spike
26	Feedstream Description	Total	Total	Total	Total	Total	Total	Total						
27	Feedrate													
28	Heating value													
29	Ash													
30	Chlorine													
31														
32	Stack gas Flowrate	25400	25400	25700	25500									
33	Oxygen	12.3	12	12.5	12.3									
34														
35	Estimated Firing Rate	70.15	72.57	69.35	70.70									
36														
37	Feedrate MTEC													
38	Chlorine	63675	128098	118971	103581.3	63675	128098	118971	63675	128098	118971	103581.3	63675	118971
39														
40	613C3	R1	R2	R3	Cond Avg	R1	R2	R3						
41	Feedstream Number	F3	F3	F3	F3	F3	F3	F3						
42	Feed Class	Total	Total	Total	Total	Total	Total	Total						
43	Feed Class 2	Total	Total	Total	Total	Total	Total	Total	Spike	Spike	Spike	Spike	Spike	Spike
44	Feedstream Description	Total	Total	Total	Total	Total	Total	Total						
45	Feedrate													
46	Heating value													
47	Ash													
48	Chlorine													
49														
50	Stack gas Flowrate	23900	24000	24100	24000									
51	Oxygen	10.6	10.8	10.8	10.7									
52														
53	Estimated Firing Rate	78.91	77.71	78.04	78.22									
54														
55	Feedrate MTEC	109785	219502	165188	164825	109785	219502	165188	109785	219502	165188	164825	109785	165188
56	Chlorine	109785	219502	165188	164825	109785	219502	165188	109785	219502	165188	164825	109785	165188
57														
58														
59														
60														

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	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	AB	
61	613C4																											
62	Feedstream Number																											
63	Feed Class																											
64	Feed Class 2																											
65	Feedstream Description																											
66	Feedrate																											
67	Heating value																											
68	Ash																											
69	Chlorine																											
70	Stack gas Flowrate																											
71	Oxygen																											
72	Estimated Firing Rate																											
73	Feedrate MTEC																											
74	Chlorine																											
75	Estimated Firing Rate																											
76	Feedrate MTEC																											
77	Chlorine																											
78	Estimated Firing Rate																											
79	Feedrate MTEC																											
80	Chlorine																											
81	613C5																											
82	Feedstream Number																											
83	Feed Class																											
84	Feed Class 2																											
85	Feedstream Description																											
86	Feedrate																											
87	Heating value																											
88	Ash																											
89	Chlorine																											
90	Stack gas Flowrate																											
91	Oxygen																											
92	Estimated Firing Rate																											
93	Feedrate MTEC																											
94	Chlorine																											
95	Estimated Firing Rate																											
96	Feedrate MTEC																											
97	Chlorine																											
98	Estimated Firing Rate																											

B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AN	AP
	R1	R2	R3	Cond Avg	R1	R2	R3	R1	R2	R3	R2	R3
61	613C4											
62	Feedstream Number	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3
63	Feed Class	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
64	Feed Class 2	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
65	Feedstream Description	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
66	Feedrate											
67	Heating value											
68	Ash											
69	Chlorine											
70	Stack gas Flowrate	25400	25400	25400	25600	25467	25467	25467	25467	25467	25467	25467
71	Oxygen	12.5	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
72	Estimated Firing Rate	68.54	70.96	70.70	70.70	70.07	70.07	70.07	70.07	70.07	70.07	70.07
73	Feedrate MTEC											
74	Chlorine	1456165.71	1455357.1	1452114	1452114	1454546	1456165.7	1455357.1	1455357.1	1452114	1455357.1	1452114
75												
76												
77												
78												
79												
80	613C5											
81	Feedstream Number	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3
82	Feed Class	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
83	Feed Class 2	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
84	Feedstream Description	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
85	Feedrate											
86	Heating value											
87	Ash											
88	Chlorine											
89	Stack gas Flowrate	27200	27200	27200	27600	27333.3	27600	27333.3	27600	27333.3	27600	27333.3
90	Oxygen	12.1	12.2	12.1	12	12.1	12	12.1	12	12.1	12	12.1
91	Estimated Firing Rate	76.9	76.0	78.9	78.9	77.2	78.9	77.2	78.9	77.2	78.9	77.2
92	Feedrate MTEC											
93	Chlorine	1803129	2422401	1826707	1826707	2017412	1803129.1	2422401	2422401	1826707	2422401	1826707
94												
95												
96												
97												
98												

	B	C	D	E	F	G
1	Process Information					
2						
3	613C10			R1	R2	R3
4						
5	Kiln Temperature	°F		1480	1480	1520
6	SCC Temperature	°F		2125	2160	2175
7	Scrubber Pressure Drop	in. H2O		42	42	41
8	Scrubber pH	pH		6.95	6.95	6.9
9	Scrubber Liquor Flow	gpm		300	300	300
10	Quench Inlet Temperature	°F		595	590	570
11						
12	613C11			R1	R2	R3
13						
14	Kiln Temperature	°F		1270	1250	1245
15	SCC Temperature	°F		1690	1710	1710
16	Scrubber Pressure Drop	in. H2O		40	40	40
17	Scrubber pH	pH		6.85	6.8	6.6
18	Scrubber Liquor Flow	gpm		300	300	300
19	Quench Inlet Temperature	°F		550	548	549

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	PCDD/PCDF																
2	N																
3	Facility Name and ID:	Eastman Chemical Company, Longview, Texas															
4	Condition ID:	613C11															
5	Condition/Test Date:	DRE / risk burn, Sept 23, 1998															
6																	
7																	
8																	
9																	
10	Detected in sample volume (pg)																
11	2,3,7,8-TCDD	1	50	50.00	50.00	50.00	50.00	49	49.00	49.00	49.00	49.00	49	49	49	49	49
12	Total TCDD	0	1400	0	1400	0	1400	1300	0.00	1300	0.00	1300	1700	0	1700	0	1700
13	1,2,3,7,8-PCDD	0.5	210	105.00	210.00	210.00	105.00	200	100.00	200.00	100.00	100.00	210	105	210	210	105
14	Total PCDD	0	2900	0	2900	0	2900	2600	0.00	2600	0.00	2600	3400	0	3400	0	3400
15	1,2,3,4,7,8-HxCDD	0.1	2200	22.00	220.00	22.00	22.00	200	20.00	200.00	20.00	20.00	200	20	200	20	20
16	1,2,3,6,7,8-HxCDD	0.1	490	49.00	490.00	49.00	49.00	450	45.00	450.00	45.00	45.00	460	46	460	46	46
17	1,2,3,7,8,9-HxCDD	0.1	430	43.00	430.00	43.00	43.00	380	38.00	380.00	38.00	38.00	390	39	390	39	39
18	Total HxCDD	0	5200	0	5200	0	5200	4600	0.00	4600	0.00	4600	5200	0	5200	0	5200
19	1,2,3,4,6,7,8-HpCDD	0.01	1700	17.00	1700.00	17.00	17.00	1600	16.00	1600.00	16.00	16.00	1500	15	1500	15	15
20	Total HpCDD	0	3400	0	3400	0	3400	3100	0.00	3100	0.00	3100	3000	0	3000	0	3000
21	OCDD	0.001	1300	1.30	1300.00	1.30	1.30	1300	1.30	1300	1.30	1.30	1100	1	1100	1	1100
22	2,3,7,8-TCDF	0.1	610	61.00	610.00	61.00	61.00	550	55.00	550	55.00	55.00	620	62	620	62	62
23	Total TCDF	0	15000	0	15000	0	15000	12000	0.00	12000	0.00	12000	17000	0	17000	0	17000
24	1,2,3,7,8-PCDF	0.05	910	46	910	46	46	920	46.00	920	46.00	46.00	880	44	880	44	880
25	2,3,4,7,8-PCDF	0.5	2500	1250	2500	1250	1250	2500	1250.00	2500	1250.00	1250.00	2500	1250	2500	1250	2500
26	Total PCDF	0	22000	0	22000	0	22000	20000	0.00	20000	0.00	20000	24000	0	24000	0	24000
27	1,2,3,4,7,8-HxCDF	0.1	1700	170	1700	170	170	1700	170.00	1700	170.00	170.00	1500	150	1500	150	1500
28	1,2,3,6,7,8-HxCDF	0.1	1500	150	1500	150	150	1500	150.00	1500	150.00	150.00	1400	140	1400	140	1400
29	2,3,4,6,7,8-HxCDF	0.1	3800	380	3800	380	380	4200	420.00	4200	420.00	420.00	3200	320	3200	320	3200
30	1,2,3,7,8,9-HxCDF	0.1	600	60	600	60	60	760	76.00	760	76.00	76.00	460	46	460	46	460
31	Total HxCDF	0	19000	0	19000	0	19000	19000	0.00	19000	0.00	19000	17000	0	17000	0	17000
32	1,2,3,4,6,7,8-HpCDF	0.01	5600	56	5600	56	56	5600	56.00	5600	56.00	56.00	5200	52	5200	52	5200
33	1,2,3,4,7,8,9-HpCDF	0.01	700	7	700	7	7	940	9.40	940	9.40	9.40	570	6	570	6	570
34	Total HpCDF	0	9200	0	9200	0	9200	10000	0.00	10000	0.00	10000	8000	0	8000	0	8000
35	OCDF	0.001	1400	1	1400	1	1	1800	1.80	1800	1.80	1.80	1100	1	1100	1	1100
36																	
37	Gas sample volume (dscf)			119.61	119.61	119.61	119.61	119.75	119.75	119.75	119.75	119.75	119.85	119.85	119.85	119.85	119.85
38	O2 (%)			13.2	13.2	13.2	13.2	13	13	13	13	13	13.1	13.1	13.1	13.1	13.1
39																	
40	PCDD/PCDF (ng in sample)			2.47	80.8	2.47	2.47	2.504	2.504	2.504	2.504	2.504	81.5	81.5	81.5	81.5	2.35
41	PCDD/PCDF (ng/dscm @ 7% O2)	0.0	0.0	1.31	42.84	1.31	1.31	1.29	1.29	1.29	1.29	1.29	0.0	0.0	0.0	0.0	1.23
42																	
43	TEQ Cond Avg			1.28													
44	Total Cond Avg			41.51													