

	B	C
1	<b>Source Description</b>	
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	<b>Condition Description</b>	
2		
3	<b>613C10</b>	
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/Cl2, HF, HBr, metals, CO, PSD
12		
13	<b>613C11</b>	
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/Cl2, HF, HBr, D/F, SVOC, VOC, PAH, aldehyde/ketones, CO
22		
23	<b>613C1</b>	
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	<b>613C2</b>	
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	<b>613C3</b>	
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	<b>613C4</b>	
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	<b>613C5</b>	
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	<b>Stack Gas Emissions 1</b>												
2													
3		Commr Units		7% O2									
4													
5	<b>613C10</b>	<b>high temp metals, chlorine</b>				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	<b>613C11</b>	<b>DRE / risk burn</b>				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	<b>Stack Gas Emissions 2</b>											
2												
3												
4	<b>613C1</b>					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	<b>613C2</b>					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	<b>613C3</b>					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	<b>613C4</b>					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	<b>613C5</b>					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	<b>Feedstream 1</b>																										
2																											
3																											
4	<b>613C10</b>																										
5		<b>Trial burn</b>																									
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	<b>613C11</b>																										
54		<b>Trial burn</b>																									
55	Feedstream Number																										
56	Feed Class																										
57	Feed Class 2																										
58	Feedstream Description																										
59	Feed Rate	lb/hr																									
60	Heating Value	Btu/lb																									





	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																							
68																										
69																										
70	Feedrate MTEC Calculations																									
71	Ash		mg/dscm		20.4		20.5		31.1		24.0										19141.6		21639.5		20535.6	
72	Chlorine		ug/dscm		18309.5		40409.8		13236.4		23985.3										167676.2		181747.6		172649.2	



	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
1	Feedstream 2																										
2																											
3																											
4	613C1			R1	R1	R2	R3	R3	R2	R1	R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	R3
5	Feedstream Number			F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike
6	Feed Class			Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike
7	Feed Class 2																										
8	Feedstream Description																										
9	Feedrate	lb/hr		6.248	8.35	7.658										1.896	2.25	2									
10	Heating value	Btu/lb																									
11	Ash	wt %																									
12	Chlorine	lb/hr		23800	23300	23700	23700	23300	23700	23800	23800	23300	23700	23700	23800	23800	23300	23300	23300	23700	23700	23800	23800	23300	23300	23700	
13	Stack gas Flowrate	dscfm		11.6	11.2	11.2	11.2	11.2	11.2	11.6	11.6	11.2	11.2	11.2	11.6	11.6	11.2	11.2	11.2	11.2	11.2	11.6	11.6	11.2	11.2	11.2	
14	Oxygen	%																									
15	Estimated Firing Rate	MMBtu/hr																									
16	Feedrate MTEC	ug/dscm		104540	136883	123420										31723	36885	32233									
17	Chlorine	ug/dscm																									
18	613C2			R1	R2	R3	R3	R2	R2	R1	R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	
19	Feedstream Number			F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	
20	Feed Class			Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	
21	Feed Class 2																										
22	Feedstream Description																										
23	Feedrate	lb/hr		3.009	6.073	5.443										0.75	1.75	1.5									
24	Heating value	Btu/lb																									
25	Ash	wt %																									
26	Chlorine	lb/hr		25400	25400	25700	25700	25400	25400	25400	25400	25400	25400	25700	25700	25400	25400	25400	25400	25400	25700	25400	25400	25400	25400	25700	
27	Stack gas Flowrate	dscfm		12.3	12	12.5	12.5	12	12	12.3	12.3	12	12	12.5	12.5	12.3	12.3	12	12	12	12.5	12.3	12.3	12	12	12.5	
28	Oxygen	%																									
29	Estimated Firing Rate	MMBtu/hr																									
30	Feedrate MTEC	ug/dscm		50970	99443	93268										12704	28656	25703									
31	Chlorine	ug/dscm																									
32	613C3			R1	R2	R3	R3	R2	R2	R1	R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	
33	Feedstream Number			F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	
34	Feed Class			Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	
35	Feed Class 2																										
36	Feedstream Description																										
37	Feedrate	lb/hr		5.89	11.755	8.848										1.4	2.6	2									
38	Heating value	Btu/lb																									
39	Ash	wt %																									
40	Chlorine	lb/hr		23900	24000	24100	24100	24000	24000	23900	23900	24000	24100	24100	24100	23900	23900	24000	24000	24000	24100	24000	23900	24000	24000	24100	
41	Stack gas Flowrate	dscfm		10.6	10.8	10.8	10.8	10.8	10.8	10.6	10.6	10.8	10.8	10.8	10.8	10.6	10.6	10.8	10.8	10.8	10.8	10.6	10.6	10.8	10.8	10.8	
42	Oxygen	%																									
43	Estimated Firing Rate	MMBtu/hr																									
44	Feedrate MTEC	ug/dscm		88701	179745	134733										21084	39756	30455									
45	Chlorine	ug/dscm																									
46	613C3			R1	R2	R3	R3	R2	R2	R1	R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	
47	Feedstream Number			F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F1 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	F2 Spike	
48	Feed Class			Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Liq spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	Solid spike	
49	Feed Class 2																										
50	Feedstream Description																										
51	Feedrate	lb/hr		5.89	11.755	8.848										1.4	2.6	2									
52	Heating value	Btu/lb																									
53	Ash	wt %																									
54	Chlorine	lb/hr		23900	24000	24100	24100	24000	24000	23900	23900	24000	24100	24100	24100	23900	23900	24000	24000	24000	24100	24000	23900	24000	24000	24100	
55	Stack gas Flowrate	dscfm		10.6	10.8	10.8	10.8	10.8	10.8	10.6	10.6	10.8	10.8	10.8	10.8	10.6	10.6	10.8	10.8	10.8	10.8	10.6	10.6	10.8	10.8	10.8	
56	Oxygen	%																									
57	Estimated Firing Rate	MMBtu/hr																									
58	Feedrate MTEC	ug/dscm		88701	179745	134733										21084	39756	30455									
59	Chlorine	ug/dscm																									
60																											

	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							
6	Feed Class	Total		Total		Total		Total							
7	Feed Class 2	Total		Total		Total		Total							
8	Feedstream Description	Total		Total		Total		Total		Spike		Spike		Spike	
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															
23	613C2		R1		R2		R3		Cond Avg	R1		R2		R3	
24	Feedstream Number	F3		F3		F3		F3							
25	Feed Class	Total		Total		Total		Total							
26	Feed Class 2	Total		Total		Total		Total							
27	Feedstream Description	Total		Total		Total		Total		Spike		Spike		Spike	
28	Feedrate														
29	Heating value														
30	Ash														
31	Chlorine														
32															
33	Stack gas Flowrate	25400		25400		25700		25500							
34	Oxygen	12.3		12		12.5		12.3							
35															
36	Estimated Firing Rate	70.15		72.57		69.35		70.70							
37															
38	Feedrate MTEC														
39	Chlorine	63675		128098		118971		103581.3		63675		128098		118971	
40															
41															
42	613C3		R1		R2		R3		Cond Avg	R1		R2		R3	
43	Feedstream Number	F3		F3		F3		F3							
44	Feed Class	Total		Total		Total		Total							
45	Feed Class 2	Total		Total		Total		Total							
46	Feedstream Description	Total		Total		Total		Total		Spike		Spike		Spike	
47	Feedrate														
48	Heating value														
49	Ash														
50	Chlorine														
51															
52	Stack gas Flowrate	23900		24000		24100		24000							
53	Oxygen	10.6		10.8		10.8		10.7							
54															
55	Estimated Firing Rate	78.91		77.71		78.04		78.22							
56															
57	Feedrate MTEC														
58	Chlorine	109785		219502		165188		164825		109785		219502		165188	
59															
60															

	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	R1	R2	R3
<b>613C4</b>													
62													
63	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3
64	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
65	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
66	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
67	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
68	Heating value												
69	Ash												
70	Chlorine												
71													
72	Stack gas Flowrate	25400	25400	25400	25600	25467	25467	25467	25467	25467	25467	25467	25467
73	Oxygen	12.5	12.2	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
74													
75	Estimated Firing Rate	68.54	70.96	70.96	70.70	70.07	70.07	70.07	70.07	70.07	70.07	70.07	70.07
76													
77	Feedrate MTEC												
78	Chlorine	1456165.71	1455357.1	1452114	1452114	1454546	1456165.7	1455357.1	1452114	1452114	1452114	1452114	1452114
79													
80													
<b>613C5</b>													
81	R1	R2	R3	Cond Avg	R1	R2	R3	R1	R2	R3	R1	R2	R3
82													
83	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3
84	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
85	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
86	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
87	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
88	Heating value												
89	Ash												
90	Chlorine												
91													
92	Stack gas Flowrate	27200	27200	27600	27600	27333.3	27333.3	27333.3	27333.3	27333.3	27333.3	27333.3	27333.3
93	Oxygen	12.1	12.2	12	12	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
94													
95	Estimated Firing Rate	76.9	76.0	78.9	78.9	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
96													
97	Feedrate MTEC												
98	Chlorine	1803129	2422401	1826707	2017412	2017412	1803129.1	2422401	1826707	1826707	2422401	1826707	1826707

	B	C	D	E	F	G
1	<b>Process Information</b>					
2						
3	<b>613C10</b>			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	<b>613C11</b>			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	200	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	460	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	390	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	1500	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	620	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	880	44
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	2500	1250
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	1500	150
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	1400	140
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	3200	320
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	460	46
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	5200	52
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	570	6
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	2.35	2.35	2.35	2.35	2.35
41	PCDD/PCDF (ng/dscm @ 7% O2)			1.31	42.84	1.31	1.31	1.29	1.29	1.29	1.29	1.29	1.23	1.23	1.23	1.23	1.23
42																	
43	TEQ Cond Avg			1.28													
44	Total Cond Avg			41.51													